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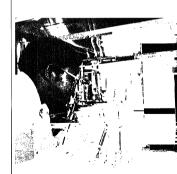
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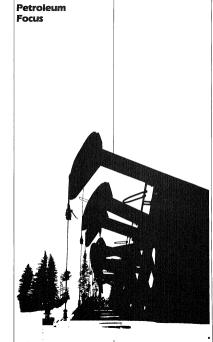
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Overview

July 1982 Petroleum Supply Summary

In July 1982 cyude oil' and natural gas liquids plant production avaraged 10.2 million barrels per day, up slightly from the 10.0 million barrals per day during the same pariod in 1981. During July, 1982, petroleum products supplied (a proxy for consumption) averaged 14.8 million barrels per day, down 5.8 percent from the 15.7 million barrals daily average for July of 1981, Refinery inputs of crude oil for July 1982 averaged 12.4 million barrals per day, a 1.5 percent increase over the previous July. Daily operable crude oil distillation copacity in July 1982 averaged 17.1 million barrels daily, compared with 18.7 million berrola daily a year earlier. The refinery utilization rate was 75.2 percent in July 1982, compared with 67.4 percent one year sarlier. Total petroleum at Imports in July 1982, were de-5.0 million berreis per day, and the yearcet one day, compared with 5.6 million berreis per day for the first 7 months in 1981. Petroleum product atocks at the earlier levels, 782 million barrels compared with 880 million barrels. July 1982 residual fuel oil stocks ware 10 milser and 1982 million barrels comsistent and the second of the second of the earlier levels, 782 million barrels comsistent and the second of the second of the earlier; and inventorless of total motor genetics at the end of July 1982 were million barrels before the July 1982 were million barrels before the July 1983 formillion barrels before the July 1983 for-

'Including lease condensate.

Petroleum Sunnly Summery

		July			ulative J. hrough J	
Average volume for Period (Million Barrels Per Day)	1982	1981	% Change	1982	1981	% Change
Total Product Supplied	14.8	15.7	-68	16.4	16.3	-6.1
Geanline	6.8	6.8	-0.4	6.5	6.6	-0.7
Distillate Fuel Oil	2.1	2.4	-12.4	2.8	2.9	-3.6
Residuel Fuel Oil	1.5	2.0	-25.6	1.8	2.2	-17.0
Crude Inputs to Refineries	12.4	12.3	1.5	11.8	12.6	-6.0
Crude Oil and Natural Gas	l .					
Liquids Production	10.2	10.0	1.2	10,2	10.2	0.2
Net Importe	5.0	5.2	-4.3	4.1	5,8	-24.7
Net Crude Oil Importe	3.9	8.9	1.4	3.0	4.0	-25.7
SPR Imports	0.1	0.2	-44.6	0.2	0.2	-25.0
Net Product Imports	1.0	1.2	-18.7	1.0	1.3	-21.
Crude Oil Stock Withdrawell	-0.06	-0.04	-	0.09	-0.03	-
Product Stock Withdrawal	-0.9	0.1		0.5	0.3	
Stocks at End of Period (Million Barrels)						
Cruda Oil*	345	388	-10.7	1	i .	1
Ganoline*	226	228	-0.7	1	1	1
Distillato Fuel Oil	148	186	-20.6	1	1	
Residual Fual Oil	69	89	-15.0			
Tetal Product	782	860	-11.1	l l	1	į .
SPR	267	178	54.3	1	1	
Total	1,394	1.439	-8.1	1	1	1

'Gross imports of crude oil (including Stretegic Petroleum Reserve) and petroleum products less exports of crude oil and patroleum products.

*Excluding Stratagic Petrolsum Reserva (SPR)

*Including blending components.

Note: Percent changes are based on unrounded values.

Source: Energy Information Administration, U.S. Department of Energy, Petroleum Supply Monthly, Sectember 1982.

Update

Refinery Shutdowns During 1982

The June issue of the Petroleum Supply Monthly highlighted refinery activities in 1981. It indicated that between January 1, 1981 and January 1, 1982, twenty-three refineries having a combined capacity greater than 450,000 barrele par day, were permanently shut-

At the beginning of 1982, operable refinery capacity totalled 17.9 million barrule per day. A portion of this operable capacity (1.8 million barrule per day was fills but capable of rectarting within 90 days. During 1982, the pace of permanent buttoforms has quickimed (see "Tabla I below). In particular, for the Juns and July report principed, 37 refineries, having a combined capacity of \$81,000 having a combined capacity of \$81,000 having a combined capacity of \$10,000 having the shadown to total permanent shut-downs for the year is now at 44 rebuttofown. This lots permanent shut-downs for the year is now at 44 rebuttofown. This lots is now at 45 rebuttofown to the permanent shut-downs for the part of the particular, and the particular is now at 45 related to the permanent shut-downs are the particular in the par

	Operable		Operating		Idle		Permanently Shutdown	
	Ref.	Capacity MB/D	Ref.	Capacity MB/D	Bef.	Capacity MB/D	Ref.	Capacity MB/D
During 1981							23	451
January 1, 1932	301	17,890	254	16,104	47	1,788	0	
February 1, 1982	299	17,983	250	15,235	49	1,747	2	30
March 1, 1932	296	17,971	249	18,131	45	1,841	4	9
April 1, 1982	294	17,967	245	18,065	49	1,903	1	14
May 1, 1982	284	17,971	246	15,974	48	1,997	0	0
June 1, 1982	1288	17,567	246	15,997	43	1,590	7	428
July 1, 1982	258	17,146				- 1	30	415
Jan-Jul, 1982					1		44	894
Aug-Det, 1982	250	16,979					8	287
1962 Total (cot.)							52	1,161

'Includes one new refinery with capacity of 3,000 barrels per day. Source: Form EIA-37"Refinery Report."



Table 2. Refineries Permanently Shutdown since January 1, 1982 (Berrels per Calendar Day)

	Refineries	Location	Crude Distillation Capacity	Date Shutdown
	Amoro Oil Co.	Beltimore, Maryland	15.000	7/82
	Seminole Refining Inc.	St. Marks. Florida	15,000	7/82
	Total	Ot. Marke, Piorne	30,000	1102
	PAD District II			
	Ameco Off Co.	Sugar Creek, Miesouri	104,000	7/82
	Ashland Oil Inc.	Findlay, Ohio	20,400	7/82
	CRA, Inc. Dillman Oil Recovery	Scottebluff, Nebraska	5,800	7/82
	Inc.	Oblong, Illinois	1,200	3/82
	E-Z Serv Refining Inc.	Shallow Water, Kanses	9,500	7/82
	Energy Cooperative Inc. Industrial Fuel & Asphalt of Indisna	Rest Chicago, Indiana	126,000	8/82
	Inc. Kentucky Oil & Refining	Hemmond, Indiana	8,187	8/82
ĺ	Co. Mid-America Refining	Betsy Lane, Kentucky	3,000	7/82
	Co. Inc. Northland Oil & Refining	Chenute, Kenses	3,500	7/62
	Co.	Dickinson, North Dakota	5.000	2/82
	Taxaco Inc. Taxas American Patro-	West Tules, Oklahoma	50,000	7/82
	chemicals Inc.	West Branch, Michigan	11,500	7/82
	Total	· -	347,887	
	PAD Dietriet III			
	Bayon State Oil Corp.	Honston, Louisiena	3,000	8/82
	Bronco Relining Co. Ceribou-Four Corners	Houston, Texas	2,500	7/82
	Oil Co.	Kirtland, New Mexico	2,500	7/82
	Clinton-Manges	Palastina, Taxas	10,000	7/82
	Copeno Relining Co.	Ingleside, Texas	11,100	7/82
	Dow Chemical U.S.A.	Freeport, Texas	190,000	8/82
	Eagle Refining Corp. Independent Refining	Jackeboro, Texas	1,800	7/82
	Corp. Independent Refining	Pt. Neches, Texas	30,000	8/82
	Corp.	Winnie, Texas	50,000	8/82

Table 2. Refineries Permanently Shutdown since January 1, 1982—Continued

(Barrele per Calendar Day)

Refineries	Location	Crude Distillation Capacity	Date Shutdown
PAD District III—Cont.	Location	Сирисицу	Shutdown
Lake Charles Refining			
Co.	Lake Charles, Louisiana	28,000	7/82
Longview Refining Co.	Longview, Texas	14,000	4/82
Pstrace-Valley Oil &			
Refining Co.	Brownsville, Texae	12,300	7/82
Rio Grande Crude			
Refining	Browneville, Texas	9,500	6/82
Rio Grande Recovery			
Systems Inc.	Brownsville, Texae	1,000	7/82
Sentry Refining Inc.	Corpue Christi, Texas	25,000	2/82
Shepard Oll Co.	Jennings, Louisiana	10,000	7/82
Sooner Refining Co.	Darrow, Louisiana	8,000	7/82
TARCO	Eulees, Texas	8,000	7/82
T & S Refining Inc.	Jennings, Louisiana	11,500	7/82
Tipperary Refining Co.	ingleside, Texas	10,400	7/82
Wickett Refining Co.	Wickett, Texas	8,000	7/82
Total		444,600	
PAD District IV			
C& H Refinery Inc.	Luck, Wyoming	190	7/82
Glacier Park Co.	Osage, Wyoming	4,160	3/82
Morrison Petroleum Co.	Woode Cross, Utah	8,300	7/82
Sage Creek Refining Co.	Cowley, Wyoming	1,200	7/82
Texaco Inc.	Casper, Wyoming	21,000	7/82
Total		32,850	
PAD District V			
Gibson Oil & Refining			
Co.	Bakersfield, California	4.800	7/82
Lunday-Thegard Oil Co.	South Gate, California	12,000	6/82
United Independent Oil	nous ones, cantorina	**,000	GIO.
Co	Tacoma, Washington	730	3/82
West Coast Oil Co.	Oildale, California	21,000	7/82
Total		38,330	
United States, Total		893,667	

Source: Form E1A-87, "Refinery Report".



Petroleum Focus

Distillate Fuel Oil Outlook: Winter 1982-83

As the winter 1982-26 heating season approaches attention turns to the adquest of heating oil stocks. A best coorn is whether supplies of heating oil this winter will be sufficient to meet U.S. denand. A second concern is whether low investories of heating oil which he will make the distribution openion. Soft of the sufficient to the

Preliminary data indicate that the level of entirinated inventories should be a dequate, but that the cushion of extra inventories is smaller than in previous years. However, since current inventories of crude oil are relatively high in terms of days of supply, and refineries are producing well below their maximum capacity, potential supplies are expected to be sufficient to meet even the extra demands of colder weather and stronger economic growth. Supplies of heating oil should be adequate, unless there is some drastic reduction in the worldwide availability of crude oil or in ers to produce heating oil

If demand is higher than expected during the winter heating seeson and stock levels fall more rapidly then expected, industry can edjust by:

- Drawing down crude oil stecks end increasing the rate of refinery utilization. Crude oil stocks at the dard of August were 365 MMB, well within the average range for this time of year. Refinery utilization of 88 percent during the first 8 months of 1982 is well below restricted peaks which have been shigh as 88 percent in 1972.
- Importing more distillate from outside the United States. Current distillate imports are well below the peak of more then 650 MB/D in February 1977. Presently, Europe has more excess refining capacity than the United States.
- Changing present refinery yields to produce more distillate.

These options provide industry with considerable flexibility to respond to in-



Recent Trends in Fuel Oil

This article reviews recent trends in the demand for and supply of distillate and regidual fuel oils, the two principal netroleum producte used for heating in the United States. The uses of these petroleum producte have changed significantly since 1977, the year of peak consumption. In that year, less than 40 percent of all distillate was consumed by the transportation sector (e.g., automobiles, vessels, and railroads), whereas by 1981 more than half of all distillete supplied was consumed for transportation, reflecting decreased heating use. Although one of the principal uses of distillate has been onere heating less than one gallon in five (19 percent) of all distillate supplied in 1981 was used for residential heating.

Recent Trends in Demand

Demand for distillate fuel off peaked in 1978 at about 3.4 million barrels per day and fell to shout 2.8 million berrels per day by 1981 (see Table 1). This decrease of about 17 percent in three years can be attributed to changes in variables affecting distillate consumption; i.e., prices aconomic activity weather and conservation effects. By far the most influential variable over the 1978-1981 neriod was price. In real terms, residential heating oil neighborross more than 75 new cent over the 1978-1981 period-en ennual average increase of over 20 nercent

Price incresses can affect quantities demanded in several ways:

- Iftilization of fuel-burning eminment decreases as consumers and busineeses "do without." This is typically a very short-term raaponee.
- · Existing equipment is run using alternative loss costly fools This is also typically a short-term reenonse, and generally applies only to those establishments which have invested in dual-fired boilers and furnaces
- · Embodied and disembodied technological changes are made to existing equipment or the environment in which It is used. An exemple of an embodied change is cleaning and adjusting furnaces and boilers to make them more efficient. An example of a disembodied change is adding more insulation to a home or office building.

Table 1. Distillate Fuel Oil Supply and Demand; 1978-1982 (Million Barrels per Day)

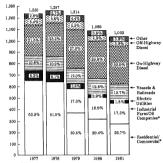
		Product Supplied			
İ	Year/	(Apparent		Net	Stock
	Quarter	Demand)	Production	Importa!	Withdrawa
	1978	3,43	3,17	0.17	0.09
	1979	8.81	3.15	0.19	-0.03
	1989	2.87	2.68	0.14	0,08
	1981 - I	3,46	2,76	0,24	0.46
	- II	2.47	2.46	0.17	-0.18
	- III	2.43	2.55	0,16	-0.23
	- 1V	2.96	2.69	0.11	0.17
	- Averege	2,83	2.61	0.17	0.04
١	1982 - 1	8.16	2.45	0.00	0.69
	- 11	2.63	2.67	0.01	0.03
ı	- Average!	2.89	2.51	0.01	0,36

^{&#}x27;Negetive numbers indicate that exports exceeded imports. Negative numbers indicate stock additions.

January-June 1982.

Note: Beginning in January 1981 BIA modified survey forms, definitions, and processing proceduras. See Explanatory Note 4. Sources: E1A, Petroleum Sunniv Annual 1981 and Petroleum Sunniv Monthly Her 1982.

Exhibit 1. Deliveries of Distillate Fuel Oil by Use as Percent of Total (Millions of Barrels)



Source: EIA, Petroleum Supply Annual 1981 *These were a single category prior to 1979.

These changes typically take place over a longer period of time and have a more lasting impact.

 Purchase and installation of new, more efficient fuel-burning equipment. Because of the cost involved, this is typically a longterm investment decision. Once the investment has been made, its impact will be felt for many years.

A Rasidential Energy Consumption Survey conducted by the Brasey Information Administration (EIA) in 1890 and 1981 indicated that during the April 1975-March 1980 period, on estimated 13 million households, or 8.2 percent of all households than heating with fuel oil or lecrosens, whiched to other fuels, mainly wood and natural gas, as their mate aware of heat. In addition, during 1978-1979, approximately 1.9 million householde heating with fuel oil or kerosons added attic insulation; 1.6 million added atorm windows and/or storm doors; and 0.7 million added well insulation. These data indicate a significant trend towerd both fuel-witching and conservation by residential consumers of fuel dil.

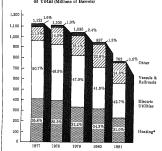
Consumption of distillate fuel oil is shifting from the traditional fuel oil use for space heating, industrial purposse, and electricity generation toward increased usage in the transportation se-

Energy Information Administration, Deperiment of Energy, Residential Energy Consumption Survey: Report Numbers: DOE/EIA-0207/6, July 1980; DOE/ EIA-0222/1, April 1981; DOE/EIA-0314_June 1982. tor (see Exhibit 1). On-highway diesel had the most farmetic increeses, 28 percent from 1977 to 1981 while selectic utility use declined 76 percent during the same pariod. In 1981, diesel fuel accounted for over 50 percent of the die-fullate fuel diconsumption. This reflects both the increase in the diesel ponetration of the private and commercial outsmobile fleet, and the overall decline in demand over the 1978-81 period.

The latest demande (through mid-1982) show en apparent leveling off of the doline in consumption noted earlier. Falling prises and anticipation of price increases contributed to a slight increase (about 5 percent) in product supplied butween the second quarter of 1982. Despite a conder-them-norm winter, first quarter demand in 1982 was down 6 percent from year-earlier byton, largely because of lower first-quarter seonomic activity.
Another factor in the leveling off of the distillate demand decrease is the likelihood that consumer actions woth as adding insulation, retrofitsing, and doing without have already been completed, and that further efficiencies will occur more slowly as the current oteck of fuel-burning equipment is replaced over the next several years.

Exhibit 2 indicates changes in the composition of residual fuel oil consumption. The commercial, industrial, and oil company sectors together declined 400,000 berrels per day, or 38 percent between 1978 and 1981. Consumption by the transportation sector in 1981 accounted for about 28 percent of total domain. Occumington by electric utilities declined 570,000 berrels per day, or almost 40 percent, butween 1978 and 1981.

Exhibit 2. Deliveries of Residual Fuel Oil by Use as Percent of Total (Millions of Barrels)



*Includes Oil Companies, Commercial, and Industrial

Source: EIA Petroleum Supply Annual, 1981

Exhibit 3. Electricity Generation between the control of the contr

Source: Energy Information Administration, U.S. Department of Energy, Monthly Energy Review, August 1982, p. 66.

0.5

(Exhibit 3). Utility companies shifted from electricity generation using petroleum to generation using other energy sources. While electricity generation increased by 4 percent between 1978 and tillate

leam to generation using other energy ources. While electricity generation increased by 4 percent between 1978 and 1981, generation using petroleum declined 44 percent. Coal and natural gas more than made by the deline strhough generation by hatural gas stopped growing in 1981, while growth in eletricity generation using coal continued to be streng.

The greatest domand levele for residual fuel ell were about 3.0 million herrela per day in 1977 and in 1978. By 1861 (see Table 2), demand had dropped to about 2.09 million herrela per day, a decrease of about 3.2 percent in 8 years. A major determinant in the decline was price, which nearly doubled in real terms

Recent Trends in Supply

Production, net imports, and net stock withdrawala comprise the supply of distillate fuel oil. Production of distillate declined 18 percent between 1978 and 1981, slightly more than the 12 percent decline in refinery production of all notroloum products over this period (see Table Si. Coincidental with the decline in distillate production was a reduction in refinery utilization from a rate of 87.8 percent in 1978 to 68.6 percent by 1981. This reflects the decrease in general demand for netroleum products over the period. Refinery inputs of crude oil fell 15 percent, and overall petroleum product demand declined 15 percent during the 3 years.

price, which nearly doubled in real terms
over the 3-year period, 1979-1981.

Dietillate imports, while fluctuating
from year to year, averaged 173,000 bar-

Table 2. Residual Fuel Oil Supply and Demand: 1978-1982 (Million Barrele per Day)

	Product		Net	Stock
Year	Supplied	Production	Imports	Withdrawals
1978	3.02	1,67	1.34	-0.00
1979	2.83	1.69	1.14	-0.02
1980	2.51	1.58	0.91	10.0
1981 - I	2.54	1.53	0.78	0.18
- II	1.91	1.26	0.64	0.06
- III	1.90	1.23	0.74	-0.12
- IV	2.01	1.26	0.67	0.02
- Average	2.09	1,32	89.0	0.04
1982 - I	2.10	1.15	0.67	0.23
- H	1.64	1.12	0.50	-0.04
- Average*	1.87	1.13	0.58	0.10

Vanuary-June 1982.

Note: Beginning in Jamury 1961, EIA modified survey forms, definitions and processing procedures. See Explanetory Note 4.

Sources: EIA, Petroleum Supply Annual 1961 and Petroleum Supply Monthly (for 1982).

Table 3. Distillate & Residual Fuel Oil Production and Total Refinery Production: 1978-1982 (Million Barrels per Day)

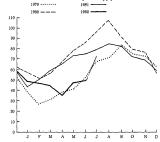
Year	Total Refinery Production	Distillate Fuel Oil Production	Residual Fuel Oil Production
1978	15.97	3.17	1.67
1979	15,76	3.15	1.69
1980	14.62	2.86	1,58
1981	13.99	2.61	1.32
1982°	13.18	2.51	1.13

Note: Beginning in January 1981, EIA modified survey forms, definitions and processing procedures. See Explanatory Note 4.

Sources: EIA, Petroleum Supply Annual, (for 1978-1981); Petroleum Supply Monthly (for 1982)

Sources: East, Petrocess Supply Consection 1818-1851; Petroleum Supply Monthly (for 1982)

Exhibit 4. Distillate Fuel Oil Days of Supply: 1979-1982



Sources: Energy Information Administration, U.S. Department of Energy, Petroleum Statement, Annual, 1979 and 1980; Petroleum Supply Annual 1981; and Petroleum Supply Monthly, (far 1982).

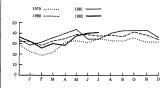
rels per day in 1981, the same level as in 1978. In 1983, market conditions have enabled the United States, for the first time in several years, to export significant quantities of distillate to Mexico, Japan, and Western Europe.

Stock levels of distillate normally follow as pattern of buildings in the late spring and summer, and drawdowns in the fail and summer, and drawdowns in the fail state of the the last several years include:

- Higher interest rates, making inventory holdings more costly;
- Lower production rates due to a general softening of demand, as discussed earlier; and
- Increased stocks of crude oil, svidently preferred by refiners to product stocks as a buffer in a period of generally adequate supplies.

Although stocks of distillate have been lower, available days of supply of distillate (primary stocks divided by daily average product supplied) have not ahown the same decline (see Exhibit 4). Particularly, in the September-Deember period of each of the 8 years 1978-1981, the number of available days of supply has been roughly similar—

Exhibit 5. Residual Fuel Oil Days of Supply



Sources: E1A, Petroleum Statement, Annual, 1979 and 1980; Petroleum Supply Annual, 1981; and Petroleum Supply Monthly, (for 1982).

dropping from about 80 days at the end of September to about 60 days by year's and. During the remainder of the year, days of supply largely reflect the severity of the winter, with the cold winters of both 1978-1979 and 1981-1982 yielding only 40 days of supply available by the end of April of 1979 and 1988, respectively.

Residual fuel oil (residual) production

declined 21 percent between 1978 and declined 22 percent between 1978 and 1981. It is significant, however, that recorded production, unlike that of recorded production, unlike that of recorded production and the percent in 1978. This reflects the obsested all-decline in not impact, occurring this period, which fall of percent in 1978. This reflects the obsested all-decline in net impact, occurring this period, which fall of period in the period of the period

End of year atocks of readual fuel oil, which peaked at 98 million berrels in 1979, felt to 78 million berrels by the end of 1981, a decline of 19 percent. As with distillate, and-of-month stocks were successively lower each month in 1981 and 1982 than in the previous year. Again, this reflects lower prices and demand, and adequate crude oil atcice. As seen in Stabilit 5, however, the decline in residual consumption has meant that available days of sapply have been higher such year since 1979. Although switching have a sapply full by April of this year to less than 30 days, days of supply in May rose to 88 days does notely to a continuing decreese in demand. This is still lower than in 1861, but higher than in the corresponding member of 1979.

Conclusion

Demané for both distillate and residua; idea dish sat dropped over the past few years, and end-use consumption patterns have changed. The use of distillate fuel oil for heating and the use of residal fuel oil for electrical generation has decreased substantially as traditional customers have shifted to other fuels. In contrast, distillate use for transportation has been increasing.

The general decrease in the use of distillate and residual fuel oils in the domestic market is having a favorable influence on the energy belance of trade, as less product is being imported then in the past several years, and more product is being axported. Based on days of supply measures, current levels of inventories are within historic ranges.

What are Futures?

Putures are contracts for the delivery of a specified quantity of a commodity on a specified date in the future, at a price which is agreed upon when the contract is executed. The quality of product and the delivery points that will satisfy the contract are also indicated.

Putures contracts differ from more common contractural errangements in that the contracting parties need never most one enother or, indeed, even know who their counterparts are. Further, a most important feature of futures trading is that contracts may be resold many times before the specified delivery date. That is, a futures contract has a market

value that is independent of the delivery price epecified in the contract.

Firms and individuals use futures both to "hedge" against future price and supply uncertainty and to "epeculate" on expected price trends. As a tool to reduce sumply uncertainty, the use of futures contracte is straightforwardthe contract guarantees delivery of a certain volume on a certain date. The

use of futures to reduce price uncertainty is more complicated and involves both "short" and "long" hedgers. A short hedger sells a futures contract to "lock in" the price he will receive either for his inventories or for his planned future production. A long hedger buys a futuree contract to "lock

in" his future product coets. It is im-

portant to understand that the nea of futures to hedge against price uncertainty does not require that the firm either take or make delivery of a physipei barrei of oil The efficient use of futures for price-rick hedging is based on the condition that

the value of a firm's cash market position will change by an equal but opposite amount to that of an appropriate futures position. In the long run, the net zein from a successful hedging operation should be zero-the firm neither loses nor profits from any change in cach merket prices. Thus, as important as the capability of avoiding major, unexpected losses, hedging in futures enablee firme to plan and budget more accurately for their future operations.

Futures Trading on Heating Oil Markets

History

Activity in oil futures trading has accolerated considerably since a No. 2 heating oil futures contract was introduced on the New York Mercantila Exchange (NYMEX) in fast 1978. Currently there are petroleum futures markets in heating oil, residual fuel oil, leaded and unleaded gascline, and propara.

In its first year, the NYMEX No. 2 hasing oil futures contract corprision of only light trading volume (10-100 contracts daily). In September 1979, the trading volume and open interest (the number of active contracts) and the quantity of oil involved begin increasing substantially (see Exhibit 1). Three reseases for this increased activity are:

- The disruption of Iranian oil eupplies, which began in 1979, provided price uncertainty and attracted epeculators as well as industry hedgere to the market. World oil prices nearly doubled in 1979, but the rate of pick increase in the last querter was especially sharp.
- Large heating oil inventories had been built up by fall 1978, pertly in response to government inducements to build supplies for the upcoming winter. There had been general concern about the adequesy of heating oil stocks after nationwide moter geneline shortages that summer. Oil jobber and distributors felt a need to hedge these substantial inventories.
- When the Iran-Iraq conflict began in September 1980, the No. 2 heading olf utures market had been around long enough for industry and potential speculators to observe sufficient "liquidity" (i.e., a sufficient volume of treding to a sufficient volume of treding to saily closed in the market and to gain confidence in the use of the contracts. With the tremendous

'Bech contract is for 1,000 berrels of heating oil (42,000 gallons) and is priced in cente per gallon. Each cent change reflects the gain or loss of \$420 per contract. uncertainty concerning world oil supplies that arose with the outbreak of the Persian Gulf war, there also arose tremendous opportunities for speculation.

Both the number of contracts and the volume of ell represented by No. 2 hearing oil futures contracts for New York. Harbor delivery increased rapidly after September 1860. By March 1881, the nountily tracing seconded 8,000 contracts of the nountily tracing seconded 1,000 contracts. The availability of occess crude oil on the world market, which become approved early in 1981, in creased the need to hodge inventories, and one of the need to hodge inventories, and one of the need to hodge inventories.

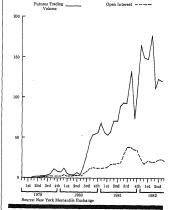
NYMEX trading in heating oil contracts for Gulf Coast delivery was initiated in August 1981. Activity is still much lower than that for the New York Harbor contracts.

Impacts on Inventory Strategy

The emergence of an active futures market in heating oil may be influencing the inventory strategies of producers, distributore, and end-users. By purchasing a futures contract, a distributor or end-user can guerantee it will receive a certain volume of product on a given date. Thue, the firm's need to maintain stocks in order to ensure adequate product availability on that date is reduced. At the same time, a producing firm that has high inventories, but is concerned about the possibility either of not being able to sell those stocks or of the future sales price declining, may protect the value of its stocke by selling futures contracts. In this case, the producer may maintein higher inventories then it would if there were no futuree merket. The buying and selling of futures contracts by hedgers at different levels in the industry has the effect of redirecting where stocks will be maintained. Speculatore assist this process in a major way, by compensating for any net difference between hedging sales and purchaeea with their own purchasee end sales. In general, the risk transference made possible by futures hedging, in conjunction with a more efficient dis-

Exhibit 1. No. 2 Heating Oil Futures Trading Volume and Open Interest

and Open Interest (Thousand Contracts)

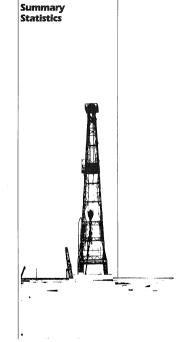


tribution of product inventories, may be expected to result in generally lower optimal stock levels as the volume of futures hedging activity increases.

Impacts on Pricing Strategy

Proponents of energy futures contracts believe that kedging in futures is changing the way the petroloum industry prices its products. As participation in the No. 2 heating oil market by the petroleum industry has increased, it is be-

lieved that futures prices are becoming more widely accepted indicators of free market product values then are eject market quotations. Normal district, contracts can be based upon future contracts can be based upon future and the production of the contract addition, major oil companies may be gin ming flutures market prices to determine internal transfer prices between fillisters. Finally, the once common fixed-price oil contract could re-emerge due to futures market prices.



Crude Oll1 and Petroleum Products Overview

		Field Production			Stock W	Ithdrewel?		Ending Stocks ³
		Total Domestic ⁴	Oruda Oil	Natural Gas Plant Production	Cruda Cli ⁵	Patroleum Producta	Petroleum Products Supplied	Cruda Olf and Patroleus Products
				Thousand Bar	rels per Dey			Millions o Berrela
1973	AVERAGE	10,975	9,206	1.736	11	-148	17,306	1,008
1974	AVERAGE	10,416	8,774	1,686	-82	-117	16.663	1,074
1976	AVERAGE	10,045	8,378	1,633	-17	-145	18,322	1,133
1976	AVERAGE	9.774	6,132	1,803	-38	96	17,461	1,112
1977	AVERAGE	9,913	6,245	1,618	-170	-376	18,431	1,312
1978	AVERAGE	10,325	6,707	1,567	-78	172	16,847	1,278
1979	AVERAGE	10,179	6,652	1,584	-146	-25	18,513	1,341
1979	AVEHAGE	10,179	0,002	1,004	~140	-20		
1960	January	10,377	8,675	1,548	~594	270	18,851	1,351
	February	10,402	8,705	1,658	-282	563	18,817	1,343
	March	10.303	8,698	1,568	-47	-99	17,377	1,348
	April	10.358	8.686	1,630	-412	-229	16,784	1,367
	May	10,298	8,635	1.615	~117	-520	16,238	1,387
	Aine	10.184	8,554	1.561	65	-889	18.187	1,411
	July	10,113	8.547	1,524	88	-556	16,008	1,425
	August	9.974	8,414	1,519	-274	-473	15.753	1,449
	September	10.184	8,619	1,515	307	-259	16,598	1,447
	October	10.062	8,532	1,518	-191	756	18,995	1,430
	November	10.108	8,495	1,571	-101	-84	16.702	1,432
	December	10,204	8,608	1.560	304	993	18,410	1,392
	AVERAGE	10,214	6,697	1,573	-98	-42	17,056	
1981		10.231	8.540	1.652	50	1.159	18,430	1.388
1801	Jenuary .	10,284	8.604	1,653	-278	250	16,989	1,389
	Fabruary			1,624	-632	224	15,907	1,401
	March	10,272	8,613	1,599	-595	148	15,350	1,415
	April	10,195	8,557			-374	15,353	1,438
	May	10,160	8,501	1,593	-391 -135	406	16,005	1,430
	June	10,287	8,628	1,594	-135 -360	405 91	15,682	1,439
	July	10,098	8,500	1,548		-939		1,457
	August	10,243	8,553	1,614	397		15,263	1,476
	September	10,281	8,604	1,612	-285	-341	15,655	
	October	10,225	8,563	1,598	-760	477	15,822	1,485
	November	10,269	8,586	1,630	-325	-233	15,593	1,501
	December	10,220	8,585	1,590	-170	745	16,598	1,484
	AVERAGE	10,236	8,572	1,609	-290	130	16,058	
1982	January	10,257	8,869	1,548	-236	1,129	15,890	1,481
	February	10,261	8,890	1,524	-218	1,268	15,941	1,431
	March	10,212	8,597	1,570	-65	1,049	15,580	1,401
	April	10,296	8,852	1,588	107	1,694	16,048	1,350
	May	10,223	8,660	1,520	49	-34	14,845	1,349
	June	10,242	8,681	1.505	88	-616	14,031	1,360
	July.	10,228	R 8.549	1,521	R -155	R-865	B14,771	R 1,384
	August**	NA	8,731	NA	-401	-290	14,610	1,415
	AVERAGE	NA	8.686	NA	-104	405	15,318	

Includes lease condensate.

² A negative number indicates an increase in stocks and a positive number indicates a decrease, 3 Ending stocks for 1973-1979 are totals as of December 31,

Includes grude oil, natural gas plant production, other hydrostrons and sicohol.
 Includes stocks located in the Strategic Petroleum Reserve.

<sup>I Includes about located in the Strategic Petrolium Recover.

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Crude Oil¹ and Petroleum Products Overview (continued)

			Importe?	,	Exporte ³			
		Total	Crude Oll ⁴	Petroleum Producte	Total	Crude Oil	Petroleum Producte	Net ⁶ Importa
				Thouse	ind Barrels p	er Day		
1973	AVERAGE	8.256	3,244	3,012	231	2	229	6.026
1974	AVERAGE	6,112	3,477	2,635	221	ā	219	5.892
1975	AVERAGE	6.056	4,105	1,951	209	ä	204	6,848
1976	AVERAGE	7,313	6,287	2,028	223	ä	215	7.090
1977	AVERAGE	8,807	6,815	2,193	243	50	193	8,666
1976	AVERAGE	8.363	8,356	2,008	352	158	204	8.002
1979	AVERAGE	8,456	6,519	1,937	472	235	237	7,684
1980	Januery	8,596	6,406	2,192	550	322	226	8,046
	February	7,945	6,013	1,931	558	332	227	7,368
	March	7,452	5,695	1,757	573	330	243	6,879
	April	7,106	5,596	1,508	434	192	241	6,672
	May	6.579	5,106	1,472	591	326	288	5,987
	June	6.694	5,480	1,414	654	365	289	6,240
	July	6.257	4.843	1,414	531	238	293	5,727
	August	6.192	4.803	1,389	319	78	241	5,873
	September	6.239	4,707	1.532	557	322	235	5,662
	October	8.379	4,768	1,611	598	309	288	5,761
	November	8,408	4,860	1,728	549	289	260	5,656
	December	6,894	5,082	1,812	622	343	279	8,272
	AVERAGE	6,909	5,283	1,646	544	287	256	8,386
1681	January	6,827	4,932	1,895	558	339	219	6,270
	February	6,772	4,873	1,699	509	198	371	6,203
	March	6,028	4,521	1,507	596	210	376	5,442
	April	6,668	4,338	1,330	570	198	372	5,096
	Mey	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	423	123	297	5,016
	July	5,816	4,296	1,521	571	257	314	5,246
	August	5,767	4,179	1,588	644	204	440	6,123
	September	8,365	4,740	1,624	519	194	326	5,845
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5.741	4.046	1.695	701	278	423	6,041
	December	5,843	4,137	1,706	668	169	467	5,167
	AVERAGE	5,998	4,396	1,599	595	226	367	5,401
1982	Jenuery	5,232	3,648	1,585	829	238	591	4,404
	February	4,891	2,949	1,742	804	304	499	3,867
	Merch	4,481	2,856	1,606	882	321	581	3,579
	April	4,286	2,813	1,474	788	174	611	3,501
	May	4,784	3,314	1,471	803	262	642	3,961
	June	5,227	3,782	1,445	703	94	609	4,524
	July*	P 5,763	R 4,245	R 1,518	741	229	512	6,022
	August**	4,899	3,638	1,261	NA	NA	NA	NA
	AVERAGE	4,922	3,412	1,610	NA	NA	NA	NA

¹ Includes legge condensate.

² Includes ahlomenta from United States possessions and territories. Includes enighteens from united clears pursuant and territories.
Includes crude oil for storage in the Strategic Petroleum Reserve.

Net Imports = Imports minus Exports.

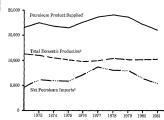
Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

See Explanatory Note 5.1.

Profilmany Statistics. See Explanatory Note 2.7. Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the and of this section.

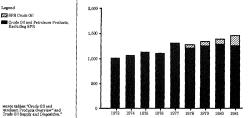




Includes crude oil and natural gas plant production. Uncludes SPR imports.

Source table: "Crude Oil and Petroleum Products Overview."

Crude Oil and Petroleum Products Ending Stocks, Annual (Millions of Barrels)



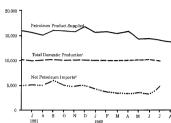
Bxcluding SPR

lource tables: "Crude Oil and 'stroleum Products Overview" and Grude Oil Supply and Disposition."

Legend

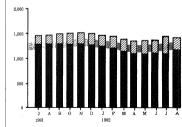
22 SPR Crude Oil





'Includes crude oil and natural ges plant production. "Includes SPR imports. Source table: "Crude Oil and Petroleum Products Overview."

Crude Oil and Petroleum Product Ending Stocks, Monthly (Millions of Barrels)



Legend ☑ SPR Crude Oil °

Crude Oil and Petroleum Products, Excluding SPR

Average Stock Range

'Average stock range (excluding SPR) based on 3 years of data, See Explanatory Note 2.5. Source tables: "Crude Oil and

Source tables: "Crude Oil and Petroleum Products Overview" and "Crude Oil Supply and Disposition."

Crude Oil' Supply and Disposition

		1			auppry							
		Flaid Pr	oduction		Importe ²		Stock Withdrawal ²					
		Total Domastic	Aleeken	Total	SPR4	Other	SPR4	Other				
			Thousand Barrels por Day									
1973	AVERAGE	9,216	118	3,244		3,244		11				
1974	AVERAGE	8,774	193	3,477		3,477		-82				
1975	AVERAGE	8,375	191	4,105		4,105		-17				
1978	AVERAGE	8,132	173	5,287		5,287		-31				
1377	AVERAGE	8,245	484	8,515	21	5,584	-20	-150				
1978	AVERAGE	8,707	1,229	8,356	152	8,195	-183	84				
1978	AVERAGE	8,552	1,401	6,519	87	8,452	-87	-81				
1990	January	8,575	1,834	6,406	0	8,406	0	-594				
	Fabruary	8,705	1,830	6,013	0	6,013	0	-292				
	March	8,698	1,847	5,695	0	5,665	0	-47				
	April	8,885	1,849	5,598	0	5,598	0	-412				
	May	8,635	1,827	5,106	0	5,166	0	-117				
	June	8,654	1,828	5,480	0	5,480	ō	85				
	July	8,547	1,612	4,843	0	4,843	0	88				
	August	8,414	1,812	4,803		4,803	.0	-274				
	September	8,819	1,810	4,707	54	4,653	-54	381				
	October	8,592	1,688	4,768	131	4,637	-123	-68				
	November	8,495	1,561	4,690	142	4,638	-189	181				
	Decamber	8,805	1,802	5,082	198	4,884	-177	481				
	AVERAGE	8,527	1,817	5,283	44	5,219	-45	-62				
1981	January	8,540	1,608	4,932	106	4,826	-151 -127	201				
	February	8,804	1,619	4,873	80	4,793	-127 -155	-180 -477				
	March	8,613	1,518	4,521	140	4,382	-155 -444	-477				
	April	8,567	1,608	4,338	272		-644 -513	-181				
	May	8,501	1,680	4,287	388	3,901	-513 -434	299				
	June	8,529	1,532	4,081	318	3,743	-924					
	July	8,500	1,805	4,296	176	4,121	-324 -372	-38 789				
	August	8,583	1,802	4,178	257 435	3,922	-372 -485	20				
	September	8,804	1,807	4,740	435 453	4,305	-686 -501	-259				
	October	8,583	1,698	4,380		3,827	-259	-209				
	November December	8,585	1,814	4,048	271 165	3,774	-252	-00				
	AVERAGE	8,572	1,809	4,398	258	4,141	-338	, 48				
1962	January	8,689	1,712	3,648	170	3,478	-169	-73				
	February	8,890	1,715	2,949	159	2,790	-213-	170				
	March	8,897	1,702	2,856	185	2,671	-235					
	April	8,852	1,887	2,813	190	2,623	-233	341				
	May	8,850	1,725	3,314	204	3,110	-176	225				
	June	8,881	1,875	3,782	105	3,878	-105	191				
	July*	R 8,849	R1,718	R 4,245	R 97	R4,147	R -97	R-6				
	August**	8,791	1,701	3,638	199	3,439	-199	-202				
	AVERAGE	8,838	1,704	3,412	164	3,248	-177	73				

Supply

Includes lesse condensate.

Includes shipments from United States possessions and territories.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

Strategic Petroleum Reserve. Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

Crude Oil¹ Supply and Disposition (continued)

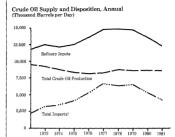
		Supply (Continued)		Diepo	eltion	6	Ending Stocks?		
		Unec- counted for Crude Oil	Crude Used Directly and Locus	Refinery inpute	Exporte ³	Total Crude Oil	SPR4	Other Primary	
			Thousend Ba	errols per Dey	,	MI	tions of Berr	els	
1973	AVERAGE	3	-32	12,431	2	242		242	
1974	AVERAGE	-25	-28	12,133	3	265		29.6	
1975	AVERAGE	17	-30	12,442	ě	271		271	
1976	AVERAGE	77	-33	13,416	ě	285		28.5	
1977	AVERAGE	-8	-30	14,502	50	348	7	340	
1976	AVERAGE	-57	-30	14,739	158	376	97	305	
1976	AVERAGE	-11	-29	14,848	235	430	91	339	
1960	Januery	168	-91	14.301	322	449	91	358	
	February	124	-31 -31	14,301	332	449	91 91	366	
	Merch	-278	-31		332 330				
	April	-276 -165	-30 -29	13,709		459	91	387	
		-165 55		13,484	192	471	91	360	
	May		-26	13,326	326	475	91	393	
	June	1	-90	13,705	365	473	91	391	
	July	52	-28	13,264	238	470	91	379	
	August	147	-26	12,984	78	478	91 .	387	
	September	27	-26	13,313	322	469	93	378	
	October	-3	-25	12,772	309	475	97	379	
	November	268	-26	13.119	289	475	102	979	
	December	24	-26	13,648	343	466	106	356	
	AVERAGE	34	-26	13,481	287				
981	January	113	-49	13,247	339	486	112	374	
	February	-41	-56	12,902	196	494	116	378	
	March	154	-63	12.383	210	514	121	393	
	April	51	-62	12.091	198	532	134	397	
	May	266	-82	12,309	312	544	150	394	
	June	49	-65	12.415	123	548	163	206	
	July	147	-65	12.261	257	659	173	398	
	August	18	-60	12,908	204	547	185	382	
	Sogtember	-298	-65	12,805	194	555	199	358	
	October	188	-88	12,000	226	579	215	384	
	November	279	-88	12,240	278	589	223	388	
	December	52	-87	12,349	189	594	230	383	
	AVERAGE	83	-83	12,470	226				
962	Jenuery	-136	-66	11.638	236	606	235	571	
-	February	199	-86	11,262	304	612	241	371	
	Merch	278	-00	11,277	321	614	249	366	
	April	56	-68	11,366	174	611	266	366	
	May	105	-66	11,801	282	609	266 281	346	
	June	110	-87	12,498	94	607	284	345	
	July*	110	-07 -83	H12,447	229	B 612	264 267		
	August**	NA.	NA.	11,945	NA.	630	274	R 346	
	AVERAGE	NA.	NA	11,785	NA				

¹ Includes lessa condensate. Encling stocks for 1973-1979 are totals as of December 31.

³ Includes shipmonts to United States possessions and territories.

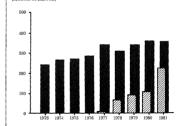
Strategic Patroleum Reserve.

⁴ Stretage Petroloum Reserve. Totale may not equal sum of componente due to incispendent rounding, NA — Not aveilable. P — Revised disk. P — Prefirming visitation. See Eigenstory Note 2.7. Geographic coverage: The 50 United States and the United Columble. Sources: See "Sources" at the and of this section.



'Includes SPR imports. Source table: "Crude Oil Supply and Disposition."

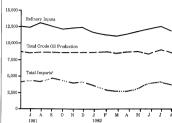




Legend
SPR
Other Primary

Source table: "Crude Oil Supply and Disposition."

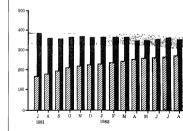
Crude Oil Supply and Disposition, Monthly (Thousand Barrels per Day)



Source table: "Crude Oil Supply and Disposition."

Includes SPR imports.

Crude Oil Ending Stocks, Monthly (Millions of Barrels)



Legend

ZZ SPR

Other Primary

Average Stock Range

'Average stock range (excluding SPR) based on 3 years of data, See Explanatory Note 2.5.

Source table: "Crude Oil Supply and Disposition."

Finished Motor Gasoline Supply and Disposition

		Supply				Diag	position	Ending Stocks1		
		Total					Product Suppli		Total	Finished
		Produc- tion	Imports ²	With- drawai ^{2 3}	Exports	Total	Unleaded ⁵	Unleaded	Motor Gasoline ⁴	Motor Gasoline
				Thousand Ba	rreis per Dey	,		Parcent of Total	Millons	of Barrels
1973	AVERAGE	6,635	134	9	4	6,674	NA	NA	209	
1974	AVERAGE	6,360	204	-24	2	6,537	NA	NA	218	
1975	AVERAGE	6,520	184	-28	2	6,675	NA	NA	235	
1976	AVERAGE	6,841	131	10	3	6,978	NA	NA	231	
877	AVERAGE	7,033	217	-72	2	7,177	1,978	27.6	258	
1978	AVERAGE	7,169	190	54	1	7,412	2,521	34.0	238	
1979	AVERAGE	8,852	181	2	(9)	7,034	2,798	39.8	237	
980	January	6,691	141	-809	. 1	6,323	2,718	43.0	262	
	February	6,866	154	-423	(%)	6,596	2,969	45.0	275	
	March	6,519	155	-267	(9)	6,406	3,032	47.3	283	
	April	6,284	155	362	1	6,800	3,021	44.4	272	
	May	6,318	132	283	1	6,729	2,980	44.3	263	
	June	8,589	148	-69	1	6,657	3,099	46.8	265	
	July	6,465	149	-132	3	6,743	3,131	46.4	261	
	August	6,452	141	56	1	6,648	3,135	47.2	259	
	September	6,383	106	28	7	6,510	3,054	46.9	258	
	October	6,131	182	380	1	6,662	3,110	46.7	247	
	November	8,467	126	-359	(9)	6,234	3,123	50.1	257	
	December	6,844	121	-133	1	6,632	3,421	51.6	261	
	AVERAGE	6,506	140	-66	1	6,578	3,087	46.6		
981	January	6,715	138	-421	(9)	6,431	3,141	48.0	276	227
	Feltruary	6,308	111	-118	1	6,301	3,096	49.1	284	230
	March	6,213	171	-81	(9)	6,303	3,097	49.1	285	232
	April	6,114	186	303	(9)	6,602	3,284	49.7	272	223
	May	8,122	150	344	1	6,615	3,115	47.1	259	213
	June	6,220	186	622	1	7,028	3,419	48.6	242	194
	July	6,405	151	268	(9)	6,823	3,424	50.2	228	188
	August	6,811	124	-95	3	6,837	3,344	50.4	233	189
	September	6,584	169	-70	2	6,662	3,338	50.1	237	191
	Oclober	6,428	147	7	3	6,578	3,257	49.5	236	190
	November	6,564	148	-338	1	6,373	3,198	50.2	248	201
	December	8,586	197	-91	11	6,681	3,444	51.5	253	203
	AVERAGE	6,405	157	28	2	6,588	3,264	49.6		
882	January	6,181	114	-368	18	5,920	3,033	61.2	282	214
	Fabruary	5,917	133	28	8	6,070	3,145	51.8	262	213
	March	6,004	183	469	44	6,612	3,396	51.4	248	189
	April	6,104	177	641	33	6,890	3,494	50.7	223	180
	May	6,322	163	188	23	6,650	3,416	51.3	215	174
	June	6,787	195	-138	14	6,812	3,561	52.3	220	178
	July*	R 6,788	200	-165	24	R 6,799	3,574	62.6	226	183
	August**	6,331	MA	NA	NA.	6,708	NA	NA	224	NA
	AVERAGE	6,305	NA	NA	NA.	6.561	NA.	NA.		

Finding stocks for 1973-1979 are totals as of December 31,

Beginning in 1981 excludes blending components.

A negative number indicates an increase in stocks and a positive number indicates a decrease. 4 Includes motor gasoline blanding components.

⁵ Includes pasohol. Totals may not equal sum of components due to independent rounding.

(f) = Loss than 500 barrels. NA = Not available. R = Boulaed data.

^{(*) =} Loss than 800 barrels. * See Explanatory Note 5.3.

[&]quot; Preliminary statistics. See Explanatory Note 2.7.

Notes: Beginning in January 1881, the Energy Information Administration modified survey forms, definitions, and processing procedures. See Explanatory Note 4 on Changes for the effects on motor gasoline statistics. Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the Dietrict of Columbia.

Sources: See "Sources" at the end of this section.

		Supply Disposition				Ending Stocks ¹		
		Total Production	Importe	Stock Withdraws ²	Cruda Used Directly	Exports	Product Supplied	
				Thousand Ba	Tale per Day			Millone of Barrela
1973	AVERAGE	2,822	392	-115	2	9	3.062	198
1974	AVERAGE	2,849	289	-6	2	2	2,948	200
1975	AVERAGE	2,854	155	40	2	î	2,851	209
1978	AVERAGE	2,924	146	82	1	- 1	3,133	196
1977	AVERAGE	3,279	250	-176	- 1	- 1	3,162	250
1978	AVERAGE	3,167	173	83	i	3	3,432	218
1979	AVERAGE	3,153	193	-34	- 1	3	3,432	229
1980			179	526				
1980	Jenuary	3,014			1	7	3,714	212
	February	2,766	237	716	1	8	3,712	192
	Merch	2,558	193	445	1	19	3,179	178
	April	2,461	154	21	2	2	2,835	177
	Mey	2,474	126	-199	1	1	2,402	183
	June	2,647	109	-439	1	(4)	2.317	197
	July	2,690	117	-557	2	1,13	2.249	214
	August	2,482	77	-403	ž	(4)	2.137	228
	September	2.886	101	-201	2	66	2.687	232
	October	2,590	115	215	ĩ	e)	2,920	226
	November	2,703	133	111	i	(9)	2.949	222
	December	2,891	168	556	- 1	(4)	3,615	205
	AVERAGE	2,882	142	84	1	3	2,686	
1981	January	2.989	273	636	11	(*)	4.109	179
	February	2,809	325	246	11	17	3.373	173
	Merch	2,484	147	264		(*)	2,904	184
	April	2.418	118	-9	10	(*)	2,832	185
	May	2,454	179	-232	10		2,032	172
	June	2,501	226	-270	10	(9)	2,411	180
						(4)		
	July	2,395	179	-204 -450	10	2	2,378	188
	August September	2,606	174	-450 -235		(*)	2,386	200
					10	1	2,513	207
	October	2,485	119	197	9	5	2,803	201
	November	2,716	124	35	11	8	2,660	200
	December	2,856	95	277	11	26	3,212	162
	AVERAGE	2,613	173	38	10	6	2,829	
1982	Jenuary	2,815	96	760	10	90	3,410	188
	February	2,447	130	889	11	90	3,167	147
	March	2,294	48	612	10	84	2.681	128
	April	2,357	59	631	13	84	2.996	109
	May	2,618	74	-184	10	75	2.444	114
	June	2,731	100	-335	10	56	2,450	125
	July*	R 2.734	R 124	R-781	11	24	B 2.084	R 148
	August**	2,537	65	-447	NA.	NA.	2,142	156
	AVERAGE	2,543	. 87	118	NA	NA	2,863	

¹ Ending stocks for 1973 - 1979 era totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Totals may not equal sum of components due to independent rounding. IN = Less than 500 barrels per day. NA = Not available. R = Revised date.

W — Less Bath 500 berrais pet only. Ph. — non evention.

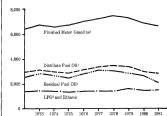
See Explanative plants. Same Explanative Visit st. 2.

Petriminary Statistics. Same Explanative Visit st. 2.

Entry Statistics.

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Products Supplied, Annual (Thousand Barrels per Day)

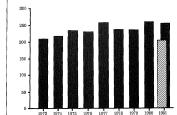


Pigures for 1979 and 1980 recast to account for data system changes in 1981. See Explanatory Note 4.

Liquefied Petroloum Gases.

Source tables: "Pinished Motor Gaseline Supply and Dispesition," "Distillate Fuel Oil Supply and Dispesition," "Issaidual Fuel Oil Supply and Dispesition," "Liquedfed Petroleum Gases and Ethane Supply and Dispesition."

Motor Gasoline¹ Ending Stocks, Annual (Millions of Barrels)



Legend Total ZZ Finished

'Includes finished motor gusoline blending components. Source table: "Finished Motor Gusoline Supply and Disposition." 8.000 Finished Motor Gasoline
4.000 Distillate Fast OII

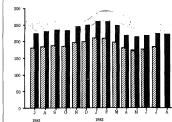
1981

Products Supplied, Monthly (Thousand Barrels per Day)

"Liquefied Petroleum Gases.
Source tables: "Finished Motor Gaseline Supply and Disposition," "Distillate Fuel Oil Supply and Disposition," "Residual Fuel Oil Supply and Disposition," "Liquefied Petroleum Gases and Ethane Supply and Disposition,"

Motor Gasoline Ending Stocks, Monthly (Millions of Barrels)

LPG'and Ethane



1982

Legend Total Motor Gespline

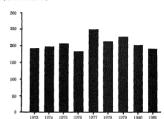
- PZ Finished Motor Gasoline
- Finished Motor Gaso
- Average Stock Range

Includes finished motor gasoline blending components.

²Average stock range for total motor gasoline based on 3 years of data. See Explanatory Note 2.5.

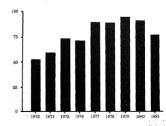
Source table: "Finished Motor Gasoline Supply and Disposition."

Distillate Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Distillate Foel Oil Supply and Disposition."

Residual Fuel Oil Ending Stocks, Annual (Millions of Barrels)



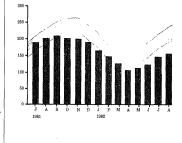
Source table: "Residual Fuel Oil Supply and Disposition."

Legend

Average Stock Range

'Average stock range based on 3 years of data. See Explanatory Note 2.5. Source table: 'Distillate Fuel Oil Supply and Disposition."

Average Stock Range



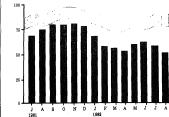
Distillate Fuel Oil Ending Stocks, Monthly

Residual Fuel Oil Ending Stocks, Monthly

(Millions of Barrels)

(------

(Millions of Barrels)



'Average stock range based on 3 years of data. See Explanatory Note 2.5. Source table: "Residual Fual Oil Supply and Disconlition."

Residual Fuel Oil Supply and Disposition

_			Su	pply		Diepo	eltion	Ending Stocke ¹
		Total Produc- tion	Imports	Stock Withdrawaf ²	Crude Used Directly	Exports	Products Supplied	
				Thousand Ba	rrais per Day			Millions of Berreis
1973	AVERAGE	971	1,851		17	23	2.822	53
1974	AVERAGE	1.070	1,667	-17	13	14	2,839	80
1976	AVERAGE	1,235	1,223	2	15	15	2,482	74
1978	AVERAGE	1,377	1,413	5	17	12	2,801	72
1977	AVERAGE	1,754	1,359	-45	13	8	3,071	90
1978	AVERAGE	1,867	1,365	-1	13	13	3,023	90
1979	AVERAGE	1,687	1,151	-15	12		2,828	98
1960	January	1,271	1,935	-51	14	5	3,067	97
	February	1,773	1,122	214	14	17	3,105	91
	March	1,584	978	87	14	2	2,658	88
	Aoril	1,595	275	102	13	40	2,444	85
	May	1,549	812	-78	12	20	2,235	88
	June	1,578	749	-4	14	14	2,321	88
	July	1.480	787	71	13	80	2,291	86
	August	1,444	875	-43	13	2	2,288	87
	September	1,495	906	-31	10	21	2,359	88
	October	1.612	875	-100	9	70	2,227	81
	November	1.579	1.024	-74	10	86	2,451	93
	December	1,680	1,025	46	10	82	2,879	92
	AVERAGE	1,580	939	10	12	33	2,508	
1981	Jenuery	1,812	1.015	302	32	85	2,898	82
	Februery	1,585	954	150	44	125	2,588	78
	March	1,424	899	100	48	145	2,126	75
	April	1,320	584	66	49	151	1,869	73
	May	1,223	741	-170	49	25	1,817	78
	June	1,232	540	291	49	76	2,037	69
	July	1,174	630	2	48	82	1,971	69
	August	1,231	819	-179	80	69	1,852	75
	September	1,292	841	-176	51	126	1,882	90
	October	1,238	786	8	54	202	1,884	80
	November	1,227	880	-49	53	203	1,909	81
	December	1,329	916	110	52	157	2,250	78
	AVERAGE	1,321	- 600	37	45	118	2,085	
1982	January	1,183	821	328	53	235	2,150	68
	February	1,136	928	358	53	213	2,261	58
	March	1,121	910	26	53	197	1,912	57
	April	1,182	762	124	52	234	1,667	54
	Mey	1,127	738	-178	52	191	1,561	59
	June	1,077	643	-49	50	217	1,504	81
	July*	R1,029	R 578	Fl61	49	239	R 1,466	R59
	August**	998	543	171	NA	NA.	1,522	51
	AVERAGE	1,104	738	102	NA	NA	1,774	

¹ Ending Stocks for 1973-1979 ere totals as of December 31.

A negetive number indicates an increase in stocks and a positive number indicates a decrease.

A region number indicate all microses on social size positive rumber indicates a discrete footbas any of original size of components due to independent rounding. NA — Not restricted. In — Foresed date, "Pellintary Statistics. See Eligination yield." See Eligination yield. See Eligination yield. See Eligination yield. The Search Statistics and Secretary forms, obtaining, and processing procedure.

somments, any proceeding procedures. See Explanatory Note 4 on changes for the effects on residuel fuel oil stetistics. Annual stock changes for 1975 and 1981 were celturies using expanded survey coverage. Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

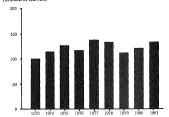
			Supply			Disposition		Ending Stocks
		Total Production	Importa	Stock Withdrewel ²	Refinery Inpute	Exporte	Product Supplied	
				Thousand Bar	rele par Dey			Millons o Berrels
1973	AVERAGE	1.600	132	-35	220	27	1,449	98
1974	AVERAGE	1,665	123	-38	220	25	1,408	113
1975	AVERAGE	1,527	112	-35	248	28	1,333	125
1978	AVERAGE	1,535	130	24	280	25	1,404	118
1977	AVERAGE	1,566	161	-55	233	18	1,422	138
1978	AVERAGE	1,537	123	12	239	20	1,422	136
1976	AVERAGE	1,558	217	70	236	18	1,413	132
1980	January	1,580	284	481	201	30	1,963	98
	February	1,581	252	209	252	26		
	March	1,519	214	209	211	28	1,764	90
	April	1,548	186	-339	171	23 19	1,608	90
	Mey	1,538	181	-339 -224			1,203	100
	June	1,538	181	-224 -319	182	17	1,246	107
	July	1,485	172		170	18	1,205	117
				-283	209	16	1,147	126
	August	1,507	158	-298	203	17	1,148	135
	September October	1,495	213	-80	228	19	1,382	137
		1,546	249	86	259	24	1,597	134
	November	1,549	231	82	304	23	1,635	132
	December	1,667	289	373	319	23	1,668	120
	AVERAGE	1,635	216	-27	233	21	1,486	
1681	January	1,617	305	363	362	21	1,913	117
	February	1,693	327	173	303	21	1,769	112
	March	1,561	260	-4	257	20	1.530	112
	April	1,588	214	-238	231	26	1,308	119
	May	1.587	189	-256	220	19	1,279	127
	June	1.667	208	-208	237	24	1,304	133
	July	1.507	213	-258	216	17	1,229	141
	August	1,592	195	-242	235	149	1,180	146
	September	1,822	199	-75	287	21	1,428	181
	October	1,593	287	72	320	78	1,556	149
	November	1,871	280	88	383	58	1,495	148
	December	1,488	255	379	428	50	1,824	135
	AVERAGE	1,571	244	-18	289	42	1,468	
1982	January	1,646	314	480	346	87	1,873	122
	February	1,476	291	310	327	51	1,859	114
	March	1,623	223	145	289	74	1.528	109
	April	1,688	188	107	267	77	1.527	108
	May	1,583	185	-81	235	43	1,431	108
	June	1,671	192	-109	282	108	1,288	111
	July*	1,658	227	-5	253	37	1,487	111
	AVERAGE	1,647	231	122	288	65	1,648	

Ending stocks for 1973 - 1979 are totals as of December 31.
 A negative number inclustes an increase in stocks and a positive number inclustes a decreese.
 Tobile may not equal sum of components dus to independent rounding.

^{*} See Explanatory Note 5.5.

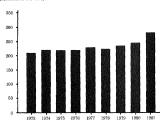
Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Liquefied Petroleum Gases and Ethane Ending Stocks, Annual (Millions of Barrels)



Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Other Petroleum Products¹ Ending Stocks, Annual (Millions of Barrels)

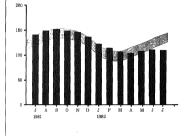


Includes natural gasoline and isopastane, unfinished oils, gasoline blending components, jet fuels, kerosene, lubricants, and saphalt. Some gasoline blending components not included prior to 1981.

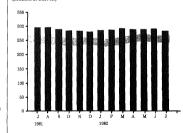
Source table: "Other Petroleum Products Supply and Disposition." Liquefied Petroleum Gases and Ethane Ending Stocks, Monthly (Millions of Barrels)

egend Average Stock Range

Average stock range based on 3 years of data, See Explonatory Note 2.5. Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."



Other Petroleum Products1 Endings Stocks, Monthly (Millions of Barrels)



Legend Average Stock Range

Includes natural gasoline and isopentane, unfinished oils, gaseline blending components, jet fuels, kerosene, lubricants, and asphalt. Average stock range based on 3 years of data. See Explanatory Note 2.5.

Source table: "Other Petroleum Products Supply and Disposition."

Other Petroleum Products¹ Supply and Disposition

			Supply			Disposition		Ending Stocke ²
		Total Produc- Tion	Imports	Stock Withdrawaf ³	Refinery Inputs	Exports	Producta Supplied	
		i		Thousand Ba	rreis per Day			Millions of Barrelo
1873	AVERAGE	3,663	502	-4	750	164	3,270	208
1874	AVERAGE	3,558	432	-28	885	174	3,123	218
1975	AVERAGE	3,424	277	-2	527	180	3,002	219
1978	AVERAGE	3,643	206	-6	524	175	3,145	220
1677	AVERAGE	3,912	205	-27	514	155	3,410	230
1978	AVERAGE	4,046	188	14	492	167	3,588	225
1676	AVERAGE	4,153	195	-37	352	209	3,749	238
1980	January	4.157	269	135	591	186	3.786	234
	February	4,181	167	-153	380	174	3,641	239
	Merch	4,126	219	-370	149	200	3.827	250
	April	4,105	238	-374	89	180	3,703	281
	May	4.018	222	-301	135	227	3.577	271
	June	4,016	226	-49	250	258	3,987	272
	July	3,873	188	82	358	208	3,578	270
	August	3,753	138	212	351	221	3,532	283
	September	3,952	208	25	234	188	3,761	282
	October	3,737	220	175	351	163	3,588	267
	November	3,786	213	158	475	148	3,533	252
	December	3,792	209	151	382	194	3,596	247
	AVERAGE	3,956	210	-23	311	196	3,834	
1981	January	3,821	182	60	651	132	3.081	295
	February	3,723	182	-200	538	206	2,958	302
	March	3,722	230	-55	842	210	3.043	304
	April	3,711	230	24	733	192	3.040	303
	May	3,882	229	-68	594	238	3,231	305
	June	3,928	218	-29	656	197	3,281	306
	July	3,862	149	264	791	212	3,282	297
	August	3,876	276	-33	876	218	3,225	288
	Septembar	3,718	285	215	683	178	3,159	281
	October	3,503	241	193	710	227	3,000	285
	November	3,579	282	33	784	154	2,935	284
	Degember	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	46	723	189	3,086	
1682	January	3,181	240	-102	602	189	2.536	284
	February	3,364	260	-118	646	136	2,724	287
	Merch	3,486	241	-204	734	181	2.027	294
	April	3,384	267	91	801	204	2,767	291
	May	3,296	309	198	823	210	2,769	286
	June	3,481	315	115	815	216	2,876	281
	July*	3,678	391	18	862	187	2,635	281
	AVERAGE	3,397	292		758	186	2,748	

¹ Includes natural gasoline and isopentane, unfrectioned streem, plant condensate, other liquids; and all finished petroleum products except finished motor resigine, distilists

fuel oil, and residual fuel oil.

2 Ending Stocks for 1973-1979 are totals as of December 31.

a A negative number indicates at increase in stocks and a positive number indicates a decrease.

Totals may not equal sum of components due to independent number (IDCastes & Ciscrosse, Totals may not equal sum of components due to independent number.)

See Explanatory Note 5.6.

Note: Annual stock changes for 1975 and 1961 were calculated using expended survey coverage. Geographic Coverage: The 50 United States and the District of Columbia. Sources: See "Sources: See and of this section."

Crude Oil and Petroleum Product Imports from OPEC Sources

											_
	Algerie	Libya	Seudi Arebia	United Areb Emirates	Indonesia	Iran	Nigoria	Vanezua-	Other QPEC ¹	Total OPEC	Total Arab OPEC
					Thouse	nd Barrels	per Day				L
1973											
AVERAGE 1974	138	164	488	71	213	223	459	1,136	108	2,893	911
AVERAGE 1975	190	4	461	74	300	469	713	979	88	3,280	75
AVERAGE	282	232	715	117	380	280	782	702	122	3,801	1,38
AVERAGE	432	453	1,230	254	539	298	1,026	700	134	8,088	2,42
1977 AVERAGE	559	723	1,380	336	541	535	1,143	880	287	8.183	3,18
1978 AVERAGE	849	854	1,144	385	573	565	919	845	228	5,751	2,88
1879 AVERAGE	838	858	1,358	281	423	304	1,080	880	212	6,837	3.05
1980			.,,,,,,			***	.,000	400	212	0,007	3,03
January	503	818	1,576	202	464	95	1,054	789	179	5.487	3,03
February	859	803	1,412	304	317	9	1,036	643	152	5,031	3,05
March	472	864	1,380	288	405	0	924	362	176	4,852	2,88
April	548	883	1,300	150	374	0	734	343	240	4,389	2,88
May	441	488	1,148	172	380	0	855	405	147	4,098	2,32
luna	487	581	1,328	178	331	0	998	409	106	4,408	2,59
July	557	492	1,192	158	386	0	752	417	82	3,996	2,41
wgust	432	431	1,139	142	289	0	792	408	112	3,743	2,22
September	375	505	1,112	107	298	ō	736	425	111	3,570	2,18
October	485	478	1,044	182	348	0	728	482	96	3,821	2,22
November December	493 423	600 668	1,201	106	348 288	0	624 958	896 610	78 101	3,844 4,423	2,331
AVERAGE	489	554	1,281	172	348	,	857	481	130	4,300	2,55
1981											
January	341	600	1.284	93	424	0	908	549	27	4.127	2.21
Fabruary	381	488	1,122	93	406	ŏ	886	463	92	3,891	2.06
Merch	352	485	1,027	47	328	ŏ	771	360	54	3,425	1.81
Notifi Notifi	253	485	1,034	88	307	ŏ	812	237	39	3,245	1,88
Mev	393	443	933	17	297	ō	684	331	124	3,203	1,79
June	356	380	866	80	367	ŏ	528	248	118	2,922	1,70
July	333	251	1,073	80	340	ŏ	851	466	38	3,233	1.75
August	348	274	1,082	61	377	ő	321	523	84	3,070	1,75
September	336	164	1,477	98	371	0	323	359	149	3.284	2,063
October	242	147	1,342	90	427	ō	412	389	172	3,220	1,82
November	210	132	1,270	112	353	ō	517	535	56	3,184	1,72
December	176	122	1,045	158	400	0	884	411	132	3,129	1,50
AVERAGE	311	319	1,129	81	388	0	820	408	50	3,323	1,848
1982											
January	254	181	877	87	273	0	682	376	128	2,816	1,371
obrusry	139	92	692	79	238	0	579	347	102	2,267	1,04
Merch	91	37	555	155	200	o	503	399	91	2,032	86
April .	85	0	479	122	215	0	427	411	79	1,818	70
day	179	0	801	116	236	0	211	414	54	1,811	89
lune	93	0	593	94	216	72	537	381	110	2,075	79
July	122	0	844	123	327	69	910	349	95	2,640	92
VERAGE	138	41	835	111	244	20	547	380	94	2,210	94

Includes Equator, Gabon, Iraq, Kowell, and Caltar.
Includes Algoria, Librya, Suad Arabe, United Arabe Emiretas, Iraq, Kuwell, and Gatar.
Totals may not equal sum of components due to independent rounding.
Note: Beginning in Occober 1977; Stretegic Perform Reservel Imports are included.
Geographic coverage: The 50 United States and the District of Columbia.
Sources: See "Sources" at the and of this section.

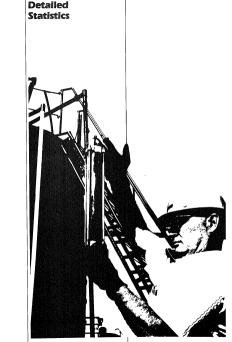
Crude Oil and Petroleum Product Imports from Non-OPEC Sources

	Behemas	Cenede	Mexico	Natherlanda Antilles	Trinided and Tobago	United Kingdom	Puerto Rico¹	Virgin Islands ¹	Other ²	Tota
				The	usand Barr	els per Day				
1973										
AVERAGE 1974	174	1,325	19	585	265	15	89	329	495	3,2
AVERAGE	164	1,070	8	511	251	8	90	391	340	2,8
1875 AVERAGE	152	248	71	332	242	14	90	408	300	2,4
1976										
AVERAGE 1977	118	599	87	275	274	31	88	422	353	2,2
VERAGE	171	517	179	211	280	128	105	468	650	2,8
AVERAGE	160	487	318	229	253	187	84	428	484	2.8
1978 AVERAGE	147	538	439	231	190	202	82	431	548	2.8
		204	700	23.	140	204	02	401	946	2,0
1985 January	178	870	545	289	239	295	67	487	492	3,1
Fabruery	111	540	477	205	192	105	95	538	852 852	2,9
darch	124	460	460	184	189	232	181	449	801	2,8
April	56	459	545	231	143	182	78	425	818	2,0
day	77	419	875	176	221	124	88	303	498	2.6
lune	27	409	627	197	182	148	91		498	
ulv	43	378	460	242	180	115	91	314 378		2,4
lugust	62	319							376	2,2
ugust	92		848	285	159	196	65	284	493	2,4
eptember	58	458	550	213	205	218	52	343	473	2,5
October	70	478	605	230	114	134	107	372	450	2.5
lovambar	22	470	459	264	158	157	108	391	435	2.4
acember	64	502	445	212	149	199	109	423	378	2,4
VERAGE	78	456	533	225	176	178	88	389	491	2,8
1981										
lenuery	39	543	401	198	150	233	89	484	552	2.7
obruary	84	546	437	227	183	271	48	481	828	2.8
terch	74	472	488	227	83	263	45	370	571	2.6
ipdi	88	412	418	188	139	402	40	365	380	2.4
fav	122	365	522	213	105	388	58	344	474	2.5
une	51	353	538	198	124	397	87	262	525	2.5
uly	77	382	364							
uguet	49			212	178	553	50	208	541	2,5
eptombar		378	489	255	123	592	58	184	539	2,8
epecimoar Ictober	111	423	708	163	169	528	72	285	881	3,1
	63	449	869	161	121	351	60	303	582	2,7
lovember	63	547	628	168	108	253	76	294	421	2,5
locamber	70	501	587	148	125	280	73	387	593	2,7
VERAGE	74	447	522	197	133	375	82	327	534	2,8
992										
anuary	28	509	426	179	108	346	62	334	425	2,4
ebruary	60	533	489	221	120	132	38	354	487	2.4
arch	43	435	503	189	118	293	62	307	479	2.4
prii	67	357	487	180	166	247	38	288	582	2.4
lay	78	418	797	152	85	516	47	302	803	2.9
na .	32	452	797	141	128	539	58	322	873	3.1
iy	30	527	783	158	111	433	38	389	874	3,1
VERAGE	46	482	605	174	120	381	49	322	575	2,7

Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, "Petroleum Statement, Annual" and PAD Districts Supply/Demand, Annual," Mineral Industry Survays.
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Monthly Patroleum Statistics Report," (unleaded gasoline category).
 1977 through 1980: Energy Information Administration, U.S. Department of Energy
- gy, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual, "Energy Data Reports.
- January 1981 through December 1981: Energy Information Administration, U.S. Department of Energy, "Petrolsum Supply Annual."
- January 1982 through July 1982: Detailed statistics in this issue, (See Explanatory
- Notes 5.1 through 5.6).
- August 1982: Estimates based on EIA weekly data (except domestic crude oil production). See Explanatory Note 2.2).
- January 1982 through August 1982: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey, (See Explanatory Note 2.7).







	Current	Month		-Date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barri per Day
Courte Oil (Including Leases Condensate)				
Field Reduction				
Alaska	E 63,165	1,715	E 381,347	1,704
Lower 48 Statos	E 214,952	6,634	E 1,473,783	8,962
Total U.S.	E 288,117	8,846	E 1,835,130	6,656
Net Imports Imports (Gross Excluding SPR)	128.572	4.147		
Imports (Gross Excluding SPR)	3,014		682,715	3,220
Exports	7,105	67 229	93,637 49,123	159
Importe (Net Including SPR)	124,481	4,016	96,123 667,226	3,147
Other Sources	100,000	4,010	907,226	0,142
SPR Withdrawal (+) or Addition (-)	-3.013	-67	-38.813	-174
Other Stock Withdrawai (+) or Addition (-)	~1,808	-56	16,898	96
Used Directly and Losses	-1,084	-63	-14,006	-88
Usaccounted for 1	33	1	23,103	106
Total Other Sources	-8,747	-218	-6,737	~61
Crude input to Refineries	385,953	12,447	2,493,823	11,782
Natural Gas Plant Liquids (NGPL)				
Fleid Production	47.158	1,621	326 396	1.640
	1,542	50	325,396	1,640
Stock Withdrawal (+) or Addition (-) 2	-829	-27	67B	á
Total NGPL Supply	47,889	1.544	330.775	1,510
Other Liquide			200,170	1,000
Untinished Olis and Gasoline Blending Components, Total				
Stock Withdrawel (+) or Addition (-)	-1,390	-45	245	1
inports	5,310	171	21,687	140
Other Hydrocertions and Alothol New Supply (Field Production)	1,799	58	10.432	46
Refinery Processing Gain 1	16,860	544	108,651	513
Crude Used Directly	1,863	60	13,947	62
Yotal Otter Liquids	24,433	763	164,282	776
Total Production of Products 2	456,155	14,779	2.686.660	14,987
(24) = (13) + (17) + (23)			2,000,000	14,041
Not Imports of Refined Products 9				
Imports (Gross)	40,209 15,867	1,287 512	292,482	1,380
Imports (Net)	24.343	785	119,658	581
			173,524	818
Total New Supply of Products	482,406	15,584	3,162,184	14,818
Refined Products Stock Withdrawel (+) or Addition (-) 3	-24,597	-763	106,735	503
Total Petroleum Products Supplied for Domestic Use	457,901	14,771	3,256,919	15,418
(90) = (20) + (90)			4,000	10,110
Finished Motor Gasoline	210,769	6,790	1,385,640	6,542
Napirtha-Type Jet Fuel	6,850	221	44,206	206
Kerosane-Type Jet Fuel	23,721	785	166,976	767
Kergeans	2,953	65	28,660	127
Dieffiste Fuel Of	84,610	2,004	559,496	2,780
Residual Fuel Oil	45,437	1,488	383,507	1,606
Liquefied Petroleum Gassa and Ethans	46,111	1,487	326,484	1,535
Other	79,915	2,288	416,703	1,951
Total Recissified 1	-13,458 457,901	-634 16.771	-72,186 3,286,920	-349 16.419
Total Product Supplied	457,901	14,771	2,210,960	10,419
Ending Stocks, All Oile				
Crude Oil and Lease Condensate (Excluding SPR)	344,560		344.568	-
Strategic Petroleum Reserve (SPR)	287,154		297,164	-
Unfirehed Cle	117,790	-	117,760	-
Gasofine Blanding Components	42,744	-	43,744	
Natural Gesoline and Unfractionated Streem	14,843	-	14,843	
Finished Relined Products 3	605.810		605,810	
Finished Relined Products 9	1,363,907		1,393,607	

^{1.} A bolancing form.
2. Includes looperating, marked questions, unfractionated streams, and plant condensate only.
2. For products included use Explanatory Note 4.7.
2. For products included use Explanatory Note 4.7.
2. For products included use Explanatory Note 4.7.
2. For products included use Explanatory Note in the Independent recording.
3. Note Total irray riot equals our of components due to Independent recording.
3. Note Total irray riot equals our of components of use to Independent recording.
3. Note Total irray riot equals used to Explanatory Notes 1.7, and 5.7.
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3. Note Total Irray riot equals 1.7.
3

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25.00 25.00

Suding Stocks 984,711 52,946 89,714 89,714 89,714 89,714 14,150 2,007 2,008 2,007 1,008 13,518 13,518 14,150 1,008 13,518 13,518 14,100 12,008 13,518 13,518 14,100

5,584 5,085 43,085

Commodity	Ped			Strock		1				_
And the state of t	Produc-	Refinery Produc- bon	Imports	With drawal (+) or Adds fon (-)	Control Course	N A P	Rudinary Inputs	Especta	Products Supplied	Briding Stocks
Crude Of (thetading lease condensate)	E 1,835,139	•	716,352	316,71-	23,184	-14,005	2,493,623	27,125	۰	611,720
Natural Gas Plant Liquids and Liftin	322,970	2,48	52,688	2	0	0	106,786	13,801	336,062	125,942
Natural Geopera and Inspertant	43,440	0	2,515	1,680	0	0	37,304	0	10,332	7,711
Unitactionated Stream	1,248	0	•	-1,024	0	•	*	0	216	5,576
Plant Condensaria	7,181	0	1,186	22	0	0	8,337	0	45	125
Liquefied Petroleum Gases and Ethane	271,101	58.763	48,505	22,552	-	•	61 197	13801	225,464	111,000
Ethine	58,230	1,005	11.652	380			1 200		100.00	200.5
Processe	56.579	62.758	12 200	12 (50)			070	0.740	901.001	100
Butane	08797	2,387	11.691	4 960		•	19		200	000000
Butine-Progne Minnes	200	609	2000	100				9	2000	2000
Ethane-Process Metures	43.882	•	8 300	969				•	0,10	200
Isobutane	23,021	-54	0	16			20.867		401	7 767
						•			2	
Other Uquida	10,432	0	31,687	245	٥	٥	114,549	0	-72.185	161.534
Other Hydrocarbons and Alcohol	10,432	0	0	Ŗ	0	0	10,409	0	٥	2
Chemathad Ole	a	0	28,000	4,442	٥	0	63.732	0	-45 174	157.790
Moler Galloine Blending Components	0	0	6,636	6,449	0	a	40,722	0	-27,587	43,083
Avisition Garceline Blending Components	0	0	c	150	0	0	415	0	575	430
Finished Petroleum Products	2.430	2.795.846	307.076	200 000	•		•		0.000	***************************************
Finished Motor Garolino	300	1 996 594	de con	6	•	-		100,100	d'orange	
Firsthed Leaded Motor Gasoline		538, 600	24 636	20,000	•	•		900	2000	182,945
Fisithed Unleaded Motor Gasolme	8	FOR 1808	49.367	100		- 6	•	9770	are and	10,140
Geschol	٥	90	9	8	0 0		0 0		200	99,701
Frished Avadon Ostoline	396	4,751	-	355		• •			ş	2 281
Naphtha-Type Jet Fuel	0	42,728	873	859				8	74.308	9.440
Korcestre-Type Jet Faol	**	163.806	5236	306	0	•	a	Į.	150.070	20.445
Koncepte	120	23,259	2,007	1.956				100	00 000	1000
Distillato Fuel Oil	17	699,236	19,013	43.391	0	2.287		***	200 400	146.160
Residual Fuel Oil	0	237.240	162,498	19.029		10.960		46.500	200 000	00000
Naphtha < 400 Deg for Putts, Feet.	0	23,477	11,566	ş		0	a	874	44.63	2008
Other Oils > 400 Deg, for Petrochem Fleedstock	0	58,455	•	-326	۰	•	0	4.780	61 040	2000
Special Naphthas	805	10.948	3,923	350	0	0	0	1 276	14.500	3 606
Cubicants	0	30,863	1,700	786	0	٥	•	3,533	25,816	13.578
Witott	0	3,015	3	#	0	•	0	164	2,831	768
Petoleum Coke	0	36,046	0	-1,3%2	0	0	a	97.619	54874	7585
Asphalt	0	62,947	860	1949	a		0	136	61,200	22.068
Road Ck	0	987	N	8	0	0	0	a	709	2
251 Cas	e	117,353	a	o	0	0	0	•	117,393	٩
Macellandous Products	2,003	16,679	8	8	0	0	0	200	17,917	3,382
Total	1014	O arra arra	. 044 000	207.00	,	1				
				100	1000	7	2,714,934	188,081	3,298,470	1,203,907

1. Unexcended for ends of a to balancies line.

2. Total could reflexly last use and lyas.

E. Esternisch.

E. Esternisch.

E. Hall and the companies due to be independent rounding.

Source and reference consistence for the independent rounding.

Source and reference consistence for the independent rounding.

				ADD.				1000000	
	Produc- tion to	Refinery Produc- ton	Imports	Stock With- Adds- tone)	Unac- counted For Chude	Crude Description and and and and and and and and and and	Refinery Imputs	Exports	Products Supplied
Crude Oil (including lease condemate)	E 0,549		4,245	198	-	2	12,447	82	۰
dehrol Gas Plant Liouids and LRGs	1,500	900	220	-33	٠	•	9		
datum Garolino and Innocetano	191	٩	\$, .	•	•	į	\$	3
The state of the s			*	٠,	,		ē.	•	9
The Contract of the contract o	\$;			P			0	•	-
an constituent and a second and		9		•	D	٥	q	•	Ē
Journal Propositin Gases and Emans		8	N	φ	0	0	202	33	1,487
CONTRACTOR	2	*	8	35	0	0	e	8	327
Propere	4	270	ą	7	0	0	9	-	710
Dutan	ă	20	19	- 10	a	•	144	-	110
Butane-Propare Modures	*	~	8	8	•	•		•	8
Ethans-Pricans Medium	900		š	\$	•	•		•	3
Hobotane	107	7	0	7	00		8	0	8 "
Other Liquids	8	0	Ē	ŧ	0	0	618	٥	7
CONST. INCOMPOSTS AND ALCOHOL	8	0	٥	ε	•	0	28	٥	٥
Ummether Cas	0	0	ž	P	•	0	465	0	-980
dor Gasoine Banding Components	0	0	æ	9	•	0	106	0	-100
Avadon tasone Belang Carponents	0	0	o	-	0	0	?	0	*0
This had Petroleum Products	ş	13,806	1,070	-788	۰	\$	0	5	13,685
HIERORD MODOL GESCHING	-	6,787	8	-165	0	0	•	ž	6,799
Financial Leaded Motor Caponia	-	3,211	8	9	0	٥	•	z	3,225
PERSONAL DIRECTOR CARGORIAL CONTRACTOR	0	3,572	*	4	•	•	•	0	3,57
Casoro	0	e	0	Ξ	0	0	0	0	n
Pathed Aveton Geogles	n	27	£	ε	0	0	0	0	8
Naphtra-1ype Jef Fuel	0	23	60	Ť	0	0	•	0	2
Karosene-Type Jet Poel	0	740	4	18	0	0	۰	-	785
Keropene	8	98	9	9	٥	0	٥	8	25
Distillate Fuel Cit	8	27.56	134	1961		-			2084
Residual Puel Oil		1.059	829	4		8		88	1 460
Monthly - 400 Day for Both Food Day			.01	,		•		•	
Other City And Date for Been freed then	•	900	•	- «		•		•	83
South Marbitus			٠:	•		•		2 4	ŧ
photosite	0 0	3 5	: :	pe	•		•	٠.	- 1
		ł	=	?	•	0	•	=	Tr.
A200	0	2	-	N	٥	0	0	-	2
Petroleum Coke	0	ij	0	-13	٥	0	0	1	274
Agrild	0	23	7	12	0	0	0	8	250
Road Oil	0	2	0	7	٥	0	0	e	
Sall Gas	c	619	c	•		•		•	040
Mecellaneous Products		22	8	-12	• •	• •	• •		8
(do	10,228	14,105	6,763	-1,021	-	7	13,562	741	14,77

Toke stagis mittery that eas not loss.
 Toke stagis man 500 hards prof. The stagis may be a feet of the stagis may be a feet man 500 hards prof. E. Elstmann 500 hards prof. E. Elstmann 500 hards may be a feet of the stagis may be a feet of the st

Loss repeates means your care noo.
 Los than 500 bennes per day.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Note: Total may not equal sum of components due to independent rounding.
 Sunton and extremen propertient: So to (prejuratery) froms on Data Collection as

	l								Demonstran	
Ontmodity	Produc-	Refinery Produc-	stoots	Mark (+)	Countries For Countries	Party of Grade	Receipts	Rofeway	Bygg	Products Supplied
ude Oil (Including lease consensatio)	£ 2.581	•	30.00						1	
	į	•		ne's	, 100	•	2,585	60.010	Ē	٥
turnit Gass Plant Liquids and LPGs	1,000	130	307	100	•	٠		-		
Rosting Petroleum Gases	490	1363	310	9	•	•		26	R	į
Date	388	0	•	٩		•	7,308	2/2	8	3,844
DAY MODICES	129	0	00	9	•	9 0		• ;	E	98
Attent i barrier						•	•	2	0	Š
Other Lines and Street	2	•	Š	-1,191	۰	0	97.0	2000	•	
Language of Accept Accept	88	•	٥	7		• 0	•	9		-1,037
Make Control of the C	•	0	1,833	-1300			ě	200		
Addition Control Designation Configuration	0	•	707	252	0		,	Control	0 4	2,87
Armen vescent depose Conponents	0	•	c	•	0			Š		8
Chicked Detections in							•	,	•	•
STATE OF THE OWNER OWN	ň	43,715	21.061	-8 806	•	•		٠	-	
Tributed Motor Galsonia	ž	20,300	4.068	2039			10,210		2	22,400
THEND LINES MODY GREEKED	ä	8,536	2415	629		•	400	•	3	7,562
PRINCE UNIGODO MODE CASORDE	0	11.772	1 853	1.301				٠.	2	21,333
GEORGI	•		•		•		72.45	٥	0	40,238
Philipped Awarton Gazoline	0	;	2			0	0	٥	•	7
Naphthe-Type Jet Fuel	•	8	-	- :	•	0	180	٥	0	197
e Jos Fuel		1	ď	N I	0	0	š	•	0	1.578
Kercoern				2	0	0	6,457	0	a	8.796
Distillato Fast Cit	•	3 5	9	2	0	0	50	0		306
Beeing Foot Cit	•	200	3,41/	-13,170	٥	0	17,657	0	106	16.810
Nachtha and Other Ode for Petrophem	•	93838	13,734	0,00,1	0	0	3,328	0	-	22,000
Feedund	•									
Special Nardelhan		8	66	17	0	0	-110	0	8	1614
		\$	18	200	0	٥	318	٥	*	600
When		3	8	ņ	•	e	413	0	136	1047
1		8	n	*	۰	0	0		*	
THE PARTY NAME AND ADDRESS OF THE PA	•	1,335	o	-145	a	c	•	•		
ARRIVE TATALON TO THE PROPERTY OF THE PROPERTY	٥	3,157	195	S.	0		7	•	200	200
HOSE OF	•	0	•	•	•		ţ °		9	2000
Still Gas	0	1.941		•					0	
Metallitriocus Products	•	3		;			,	•	0	196
		į	-	7	9	0	242	۰	16	178
Total	3,629	45,058	88,233	-9,221	1,103	0	50,667	43,067	787	125,836
1 Unaccounted for crude oil is a battercha dem.			l					İ		
2 Total equals refriery firet use and loss.										
3 includes natural casciline, incomments included account and action	though north	the same	1							

| 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 17,000 | 1

				Suppy					Discontino		L
Commodity	Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Add- fon (-)	Uhac- counted For Chide	Chade Directly and Losses	Net Paccepts	Refinery Imputs	Baports	Products Supplied	Endeng Stoods
Crude Oil (including lease condensate)	€ 29,262	۰	22,867	911	39,990	ş	1,840	953'55	â	•	74,128
Material One Steam Imply and 1 thes	9	4		1 1000	•				١		
Actural cuts want Liquids and Liquis	8378	2,410	9,310	200	0 (2,839	4,988	-	15,814	34,78
Edward Performer woods agreement and a second	1	,	1 750	8	9 6	9 0	900	2,799		12,082	20,736
Other Products ²	Ŕ	0	۰	8	0		1,183	2,156	0	5	3,255
Other Liksuids	400	۰	230	-645	•	•	203	2 2018	•	200	24.044
Other Hydrocarbora and Alcohol	800	a	0	-			٩	416			
Unfinished Olls	٥	0	2	386			300	1.788	a	-1013	8
Motor Gasolene Blanding Components	0	0	408	-943	0	0	828	25	c	8	0.367
Anythori Gasplene Blanding Components	0	0	0	9	0	0	۰		0	•	901
Finished Petroleum Products	7	100 440	720	-44 230	•	•	100.00	•	***		040 040
Frished Motor Cambra	•	200		600	•	•	9		Š,	12,/0	20,073
Frished Leaded Motor Geschine		200	8 8	2 140	9 6	0 0	2.000	0 0	23	0000	200
Firsthed Unleaded Notor Gasoline		28.140	۰	1 606	0	•	0 900		E	20000	20000
1	0	100	0	1	·	•	-	•		8	100
Philiphed Avasion Gestoline	a	181	۰	57			174		c	8	ē
Naphtha-Type Jet Foel	0	380	0	33	a	a	2	c	•	1,068	1.000
Kerceana-Type Jet Fuel	0	3,591	0	407		0	285	0	0	4.726	7.740
Korosana	0	386	0	F	0	0	216	0	a	281	2,502
Design Full College	- 1	22,072	8	4	0	0	6,012	٥	٥	19,965	42,575
DESCRIPTION OF THE PROPERTY OF	•	3,39	E C	99-	•	0	-710	0	0	863	5,712
reprint and controlled for Head, Feed.	0	1,007	0	0	0	٥	o	0	85	1,834	88
special rapings	•	25	N S	Ţ	00	00	2 5	00	- 9	E.	900
Winde		:	2 *	8 8	90	0 0	ā°		2		2,18
Retrieve Cross		2		ij		0.1			8		8
Asstrat		100	9	2000	9 6		-		5*		1,100
Road Co.	•	2	•	9			Ġ,	9	2 .		į
Sel Ges		4.162	00	9		00	0 0			7 400	ą.
Misoslaneous Products	2	202	**	8		0	8	•		8	28
Total	38,065	104,852	29,370	-9,235	39,990	27	27,267	101,088	1,509	127,688	267,165
2. Total equals refinery but use and lone.											
2 bytheles natural nations increased national and other condensates	of shown and	f niest conde	al al								

* TOURSE TREER ENGINEER SEARCH, SOPRIMENT, UNIQUE HELD SEARCH, SITS PERM. ACCOUNTER.

E. WENTER,

C. WENTER,

C. WENTER,

SALVER,

				Sarah							
				Speci					Disposition		
Commodity	Produc for	Refinery Produc- tion	about g	demand (+)	Uhao- countod Fer Chude		Nee Pacsapts	Puttnery imputs	Esports	Products	Emding Stocks
A 100 Miles				B20 (-)	,	Losses					
	130,516	۰	68,202	9	4						1
Natural Gas Plant Liquids and URGs	24 910	-				Ť	12,336	175,086	•	•	422.853
Lighted Purchum Gabes	22.722	V GROOT	2,117	-1,989	a	0	-5.262	8.740			
Other Producted	5,946	8	ğ	28	01	e	1,404	3,741	ä	23,481	200
The second secon	5,570	0	1,315	-1.519	0 0	01	0	108	ε	8014	8
Wher Liquids					3	,	909	4,887	0	2000	
Other Hydrocarbons and Aloghol	ē	•	2,025	192-	٥	٠					
Unthrighed Ole	8		0	٢	c	•	900		•	-10,952	63,00
Motor Gasoine Blending Components	be	0	2,025	-505	0		200	8	0	0	×
AMERICA GROOM Blonding Components		9 4	0	8	0	a	3	9		-7.406	49,58
Miles Contract of the Contract	•		0	Ŗ	0	0	90	100		3,686	18,602
Treatment Products	***								9	140	ž
PHIRDER Motor Gasotine	°		6,248	-2,402	a		-101 127	٠	-		
Contrary Leaded Motor Greoding	•		E:	89	c	a	201 867		*	91,885	133,077
Principled Universided Motor Gascrine		0 0	3	1,085	۰	•	200	5 6	2	31,340	47.20
Capada		62000	0	-1,685	0		00 800		8	14,501	22,658
Pittered Awaton Gazofno	2	-	0	0	a	• c	0		0	16,738	24.692
Niptiba-Type Jet Fuel	8	Ñ,	•	ş			8		0	-	
National Type Jet Find		200	0	-440	a	•	ļ	0.	a	-12	77
Karozona		10,755	0	ş	• •		97.0	0	a	1,832	2965
i,	•	2002	٥	888	0	0 <	e e	0	0	2,175	10.884
Hericianal Fuel Cil		20,027	9	-1,677			2 8		0	1,869	2510
Aphtha and Other Ols for Petro Favel		245	3,463	202	c	- «	20,030	0	ñ	13,987	34.165
Spaces Naphthes	0	9,719	2,659	2			20.405	0	5,044	10,267	16,390
ubroants	ā	1,380	e	-30%	•		5	0	340	12,068	3.136
	•	2,004	46	٩		5 1	196	0	8	223	1 7.40
	0	828	8	\$		ь.	-/48	0	330	1 500	
(sobs)	0	4.927	9	2 8	ь.	0	0	e	8	100	3
Post Oil	a	3,476		9.5	9 4	0	0	0	1.743	3355	3 5
Sel Gas.	0	٥	• •	0.0	0 1	٥	-821	٥	-	2021	9
ı	0	8,728	a	9 6	0 0	0	0	0	0	ľ	è
TANKS OF THE PARTY	838	1,279	**	-555				e	0	8,725	ď
Total						,	215	0	æ	8	2302
-	200,000	306,352	78,583	-11.641	20 17e	\$					

04,416

195,303

-28,378 -11,641 78,583 200,322

L											
Connodly	Produc- ton	Refinery Produc- Son	imports	Stock With- drawal (+) or Addi- bion (-)	Uhac- counted For Coude Out	Chude Used Checty and Losses2	Net Psesspits	Refinery Inputs	Exports	Products Supplied	Enching Stocks
Crude Oil (Including lease condensate)	5 19,465	0	22	1,257	-7,287	۴		13,844	0	0	13,716
September Street Section 2004 1900	2 1000	;	4		•	•	-	***	c	978.7	1000
Trusted Detroitem Gener	e C	1	196	15	•			900	•	100	ŝ
Dhaos	**	•	٥	65	0	0	0	9		°	600
	1,371	0	133	2	0	0	-324	ä	0	1,000	R
Other Limite	7	۰	c	77	c	e	0	139	G	470	473
Other Hedrocarbons and Alcohol	K	0	0	٥	0	0	0	K	0	0	
Unfinished Oils	0	0	0	237	0	0	0	-503	0	460	2,919
Motor Gasoline Blanding Components	0	0	0	307	0	0	0	27.	0	8	1,500
Avadon Gasoline Blanding Components	•	0	0	0	0	0	0	۰	0	0	0
Institution Products	22	14,538	-	48	0		248	0	***	15.253	12,337
Frished Motor Gasoline	0	7,742	0	391	0	0	178	0	0	8,311	4,282
Thicked Leaded Motor Gasokne	0	4,934	0	325	0	0	168	0	0	5,428	2,727
Partied Unleaded Motor Gasoline	0	2,808	0	Z	0	0	12	o	0	2,863	1,553
Seschol	•	0	0	0	0	0	0	0	0	0	N
Finished Aviation Gasoline	0	8	0	-		0	10	0	0	55	ĸ
Applica-Type Jet Fuel	0	ig i	0	7		0	-105	a	0	200	88
Geography and Publishers	00	ğ,	00	-110	0	a	e e	0 1	0 1	920	25
Declare for Oil	•	3888	8	14.			9	0 0	0 0	2000	2 289
	a	312	0	٩			9	•		316	500
Aphtha and Other Olls for Patro. Feed.	c	N	0	0	0	0	0	0		-	0
Special Naphthas	0	~	3	7	0	0	0	0	0	*	1
shoats	0	83	-	φ	0	•	0	0	-	ສ	8
Alzees	0	٥	0	ę	0	٥	0	0	0	62	9
Petroleum Colle	0	273	0	e	0	0	0	0	ε	8	485
Asphalt	0	600	•	563	0	0	0	0		1281	2,438
Road Oil	0	*	0	0	o	0	0	0	0	•	
SIII Gas	0	8	a	a	0	0	0	o	0	253	c
Misoellansous Products	ţ	×	0	8	•	0	0	0	0	8	- 61
Total	20,626	14,512	1,817	2,380	7,287	0	91	14,476	64	17,574	31,589

Shekkote natarii goolen, soopertano, unhadbooaled stroan, and plant condensate.
 Leas that Stoc Banket.
 Elimental.
					ĺ						
Commodity	Produc tron	Redinory Produc- ton	Imports	Steek with- drawal (+) or Add- fron (-)	Unac- counted For Crude Or	Chuse Usead Deedly and Losseed	Net Rocospes	Refereny	Exports	Products Supplied	Stocks
Crude Of (Including lease condensate)	E 87,293	٥	6,869	-1,942	¥,	-1,834	-16,761	63,015	9,156	•	82,386
Natural Gae Plant Libraride and LRGs	1.046	1,400	351	127	•	-	•	2000	95	1.600	,
Usuefod Petroleum Gazes	630	1388	351	121-	0	• =	0	1	3 2	6	1.89
(Page and and and and and and and and and and	0	12	0	e	•	0		٥	0	15	
Other Products [®]	416	0	0	-16	0	٥	٥	ă	0	106	٠
Other Uquids	22	۰	22	ş	0	٥	180	2.669	0	-1,090	8 65
Other Hydrocarbons and Alcohol	23	0	0	**	٥	0	0	8		0	9
Unfreighed Oils	۰	0	220	1,288	a	0	180	2007	•	1995	24.0
Motor Gesoline Blanding Components	۰	0	47	948	a	0	٥	158		945	8
Avisition Gesoline Blanding Components	0	٥	0	88	0	٥	۰	8	•	•	
Finished Netroleum Products	•	69,019	3,193	-2.282	۰	1.056	4353	a	7733	71.924	8
Finshed Motor Gasoline	0	31,054	2076	-1,866	0	0	2,144	0	*	33,366	19.7
Friethed Loaded Motor Gerolno	0	14,991	1,431	-1,090	0	0	870	٥	4	15.552	2
Finished Uniteded Motor Garoline	0	15,920	2	-121	0	0	1.274	٥	٥	17,738	6
Gagohol	0	g	0	e	٥	٥	0	٥	٥	20	
Finished Awation Gateline	0	262	٥	8	0	٥	0	٥	٥	345	4
Naphtha-Type Jet Puel	٥	1,912	0	-110	0	0	8	٥	۰	2088	7
Kernsene-Type Jet Fuel	0	6,634	222	-198	0	٥	339	٥	32	9869	8
Kerosene	٥	161	٥	31	٥	0	0	a	(4)	123	
Distliste Fuel Oil	0	9,937	310	113	0	355	701	c	390	11,035	10.6
Residual Fluel Oil	٥	8,812	343	-138	0	1,502	20	٥	1,000	9,820	8
Naphths and Other Olls for Petro. Feed.	٥	424	8	4	۰	۰	۰	0	124	192	
Special Naphthas	0	133	174	6	0	٥	0	۰	8	319	
Librosts	0	\$	ε	ş	0	0	\$	0	5	420	7
Wicols	0	25	*	52	0	0	0	0	8	3	
Potolstm Cols	0	3,471	0	-222	0	٥	0	o	2002	1,217	2.5
Asphat	0	1,785	٥	282	0	0	0	0	-	2,067	2,528
Road Of	•	70	0	Ņ	۰	٥	0	0	a	Ŧ	
Still Gas	0	3,578	c	c	٥	•	•		•	2 K7M	

2,388 9550

0.835

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Mact Current Month, May 1982 Consequence of Demonstrations

(Thousands of Barrels)			PAD District and State	Town	Darly
					AMMIND
	Prods	Production	2 1		
B&D Denter and State		AND.		2000	
	Tool of	Average	Mother	2587	86
AAD District				5 1 949	8
Pords	2,304	E	Workers	E 11.089	358
New York	E 67	2		E 18 446	585
Prorestoria	E 207	7			
Vinite	0	0	DAD Nighter V		
	2 100	4	State of the state		
Total	E 2 676	96	Couth Alestin	2,302	7.6
				50,621	1,633
DAN Niemier II				52.923	1,707
Service	2221	72	Argone	8	-
	2 680	10	California		
	2000		Cantral Creetal	6,395	88
NATION AND ADDRESS OF THE PARTY	1		East Caetof	20,578	200
Authory		2 3	North	11	
Water and the second se	2010			6.947	224
WORLD	; ;	:	Total Calforna	33,937	1,005
WORKS	1	ē	Needle	4	~
000	3,504	2	Total	08,935	2,004
	100	B			
	7,153	48	United States Total	F 270,064	8,712
South Diskota	8	m			
	8		1 includes offshore production.		
Total	E 31,848	1,00,1	(s) Less than 500 barrels.		
			Source: See Explanatory Notes on Data Collection and Estimation	matton	
AD District III			E Estimated.		
Alabama	1,788	ŝ			
Artaneas	1,576	55			
Lougana					
Gulf Count	35,879	1,157			
Red Of State	2000	8			
	23.052	4 000			
	4 440				
	7,000	8			
New Mercico		,			
Northwestern	514	44			
Southeastern	5,472	177			
Total New Mexico	8,986	183			
Teas					
TRIPIC District 01	2,254	R			
TRPC Digitit 02	3,463	112			
THRC Denict 03	15 663	302			
TRPC District On	2.438	g			
TRBC Denker 05	609	8			
TRBC: Debut Of controller Seet Tente	3 887	320			
TED Newton (17)	0.740	:			
THEO Desce OTO	100	ě			
TRDC Desce on	10 876	600			
TOOL Contact Ob	0.00	1 3			
TEST DIMENTO	2	3 8			
TODO Public to	94.				
Cast Tours	2	3 5			
Table 1988	1000				
TOTAL LANGE CONTRACTOR	10/10/1	2000			

Table 12 Offsh

Table 13. Production of Lease Condensate by State, for the Most Current Month, 1 May 1982

Offshore Production
Total Daily
2,038 68
2,289 74
3,418 . 110
5,716 194
2,000 732
2,0102 67
A,745 a00
1,518 49
127
1,845 63
34,184 1,103

on data are included in Table 11. Small amounts of lease win to be produced in states other than those letted, however.

Connodby East Cost Wateral das Part Lipzet Material das Part Lipzet	Acceptant				֡											
	e die	Total	Appala chian	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A Sept	S S S	Total Total	Tooss	a a l	13 j	No. La	New	1	Plocky N	West V	United
	1	Ł			1	1			7400			1			1000	l
	33	1,008	•	2,030			8.379	18,329	2.805	0.900			34.288	9.07A	1046	
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			0	80			1,340	2212	-1,610	1.468			3	374	487	
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-			0	22			76	255	676	38			898	19	9	
			0	8			8.043	7.948	12.587	6.746			200 6000	340	929	
1			۰	430			1,601	1,244	2,439	2,156			5.946	w.	9	
Propane	200	254	0	382	142	2,590	3,127	2,849	3,944	2.207	148	8	9.498	454	353	
-			0	2			1.23	1,443	2.314	858			4.976	516	333	
	_	0	0	٥			0	99	H	-			103	*	38	
Change-Propane Michaels			0	0			1,581	1,763	2,718	722			6.360	0	0	
			0	\$			463	600	1,146	100			2.778	9	23	
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rossins-type Jet Pitel			٥	0			٥	0	0	0			0	0	0	
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SOMEWHOLD PRODUCES			٥	Di.	0	12	ž	107			0		550	ğ	0	235
Wall Production 671	27	1,042	0	2,062	367	5,924	9,394	18,659	2,809	110,8	5118	3,387	34,503	2,090	1,046	47,156
Production represents quartey of natural gas proceeding plant output lass input to fractionaling facilities	Ad Guyan	lare output	Ness Input	t to fracts	at Guitano	toffes.							l	l	l	l

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Note: Total may not equal sum of components due to bedependent.

Source: See Exptensicy Notes on Deis Colection and Eletimation.

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	1.958	029	216	0 2.584	8	450	
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	1,035	76	122	0 1,2	592	150	
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771 2 773 50 1475 788 91 1404 269 171 187 187 187 187 187 187 187 187 187	278	1,683	123	30 4.8		3,471	13,361
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10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	689	1,278	88	% %	78 699	785	13,089
tooberwaal Feedstock Use	o	0	0	0	4	Ž,	
42 0 42 0 1 0 0 1 5	6,212	2,820	33	82	3,725 553	3,578	18,959
	906	113	0	•	426 25	5	3
125 1,839 78 2,868 274 1,141 4,161 4,31 4	2,904	2,707	20	80	1239 523	3,527	18,414
Acceltaneous Products	36	g	48	0	73	253	2,462
Oths Output 42,352 2,706 45,059 1,853 85,731 9,256 27,502 104,602 16,557 100,09	100,887	72,745	6,179 2.5	2,984 202,332	32 14,612		70,416 437,270
200 100 100 100 100 100 100 100 100 100	4 350	0.00	*	40 000	40.0	****	
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Table 18. Refinery H	É	
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Method	N.	Appeter chair	18	Appla	ž,	Min.	Kans	Total	Teams	Gulf S	488	A P	New	Total	Rocky	West	States
poline Domesto Foreign	**	8 8 °	30	E 8	97,789 18,193	4,332	25,128 128	85.52 50.52	12,847	14,060	3,524	3,578	200	19,343	32	27,5402 737	45,080
pertor Domesto	4,001	00	4,601	00	00	0.0	00	00	00	15,598	4,842	00	00	9,740	00	29.755 6,284	70,200
Serge Domestic Foreign	5,576	80	8,57,8	۰۰,	507.	00	00	1,153	20	142	586	27.2	00	1,101	00	8 °	7,830
Bork Cars Domestic	20	¥°°	250	0.0		0.0	00	00	00	00	00	8°	00	80	00	00	8°
Porteign		80	ă, o	E°	\$°°	ñ o	800	85.0	55	216	80	80	99	2,901	8 -	ž.	194
coal Domestic Foreign	31,488	2,464	7,145 31,485	4.8	39.253	4,382	24,053	24,850	18,781	57,874 29,917	40,040	1,093	2,609	118,937	12,010	58,285 7,021	123,304
Nose Total may not equal gam of components due to independent rounding. Source: See Explanatory Nates on Data Collection and Exhibition.	story Note	s on Dat	Sonents 2 Collec	due to m	Spanden	Lounder											

or Party Commence at Defineries by PAD District, July 1902

								Ì	l	١			١	l	0.0	0	
	ď	Compet			PAA	2 Detrict					900	stock			3		,
Corrmothy	18	al said	Top.	chian chian	ji Ži	March	Kare.	To To	Texas	Guif	356	활	Mention	10	looky a	Nest A	States
Course Oil picketing tuess condensated to the condensated to the condensate for the conde	- 학교학등 - 독교통 - 독교통		· # 0 포 용 0 보 등 이런 무 포 용	0000508608020	02008082220gt	-20-8-550F-8-	. 20 . 22 . 25 . 25 . 25 . 25 . 25 . 25	0 8 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	040800 880 E E	08 0 0 th 0 8 th 1 th 1 th 1 th 1 th 1 th 1 th 1 th	0% 0.00 05 0 50 50 50 50 8	0000204208040	8 000 80808020	。 12.0 12.0 12.0 12.0 12.0 13.0 1	0,0000	E 8 0 2 1 2 8 8 2 8 2 1 1 1 1 1 1 1 1 1 1 1 1	30 1,000 1,544 1,5

products (e.g., unfinished cels, koncenne, etc.) consumed at references

es due to inde

Table 20. Imports of Crude Oil and Petroleum Products by PAD District, July 1982 (Thousands of Barrels)

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Control Character Cont	- Common	l			à	,	Total
## ## ## ## ## ## ## ## ## ## ## ## ##		-		=	:		-
	Crude Oil (including leave condensate) 1.2	12,23	22,047	68,202	1,415	6253	131,586
	Netural Gae Libraide	900	6.940	2346	400	194	
	Natural Geodine and Isopertane	8	°	1316	°	ď	1.316
	Plant Condensate	35	0		186	0	222
	Liquefied Petroleum Gases and Ethane	312	5,310	800	282	198	7.042
### ### ### ### ### ### ### ### ### ##	Etano	٥	1,721	G	0	•	1 704
	Propare	50	8	0	139	B	325
## ## ## ## ## ## ## ## ## ## ## ## ##	Buting	11	ę	š	138	202	1,401
	Butana-Propana Maturos	0	0	200	0	°	308
	Ethans-Propane Metares	0	1,888	0	٥	0	1,558
### ### ### ### ### ### ### ### ### ##	Other Uquids 1	2.534	925	2.025	٥	2	6210
	Unfinished Ods 1	1,883	5	2,025	٥	175	4.155
	Motor Gazoline Blanding Components	701	408	o	۰	4	1,156
	Phisbed Petroleum Products	23,061	795	8368	•		-
Comparison Comparison	Finished Motor Gasoline	4068	9	8		2000	
100 100	Enighed Learland Motor Chambras		8 8	32	0	200	9
A	Firsthod Unkeated Motor Counting	188	3 *	•	•	200	
100 100	Phished Avation Graphee	to.				3 '	9
	Naphtha-Type Jet Fold	960	0			•	E
	Kennena Tore for Duel	1	•	•	9 0	1	8
March Marc	Bonded Agreet Fluid	0	9	9 0	9 6	8	S°
1 1 1 1 1 1 1 1 1 1	Other				0.0	1	1
A A A A A A	Karpeane	,	•	•	00	9	9:
		9442	, 8	,		1	9
1	néors	i	9 0	9 0		9	e e
2.47 10 10 10 10 10 10 10 10 10 10 10 10 10	For military offshore use				00	•	
1	No. 2 fuel oil	3.417	8	ģ	100	, GE	2000
	No. 4 foel of	9	a			٥	
March Marc	Residual Ford CN	13,734	303	3,463	- 0	363	17.840
A Section (1997) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bonded ships burkons	0	0	۰	۵	a	
 - 400 Tag, for Piece Feed, Lise - 500 Ta	For military offshore use	0	0	0	•	G	
100 100	Other	13,734	300	3,463	0	200	17.042
2 2 > 000 Data for Parts freed by	Naphtha < 400 Deg, for Petro, Feed, Use	168	0	2,699	٥	2	8.753
10 127 8 % 174 174 174 174 174 174 174 174 174 174	Other Oils > 400 Deg. for Petro, Feed, Use	0	0	٥	0	0	9
(9) 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Special Napithus	ģ	127	8	8	174	330
196 19 0 0 0	Ubrasmite	233	\$	46		(66)	330
195 19 0 0	Wax	e	e	R	0	•	23
	Asphalt	196	0	0	٥	0	216

1,817 10,635 178,648

58,233 29,370 78,590

Total Imports

	ŝ	e s	O dis	Standing Compo- nents	Motor	¥.8	S Series	5.5	20.2	Special	8 7 8 8 10 4 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Profession of the second	P P P	Dusy Average)
							All PAD Districts	Systicts						
Agenta Agenta	2,276	00	588	0.0	0.0	0.0	0.0	¥,	1,034	0 4	01	1,521	3,797	žī:
War war and a second	88	0	00	0	00	00	00	00	30	00	00	90	88	- 5
Soud Arabia	18,309	0	195	0	0	0	0	0	200	0	834	1,664	19,972	2
Subtotal Arab OPEC	24,046	00	6.0	458	00	06	00	2	230	00	(315	4,65	28,752	927
Other OPEC														
Equator	1,000	0	0		0	0	•	0	0		0	0	1,090	38
Gabon	9	0 0	0 *		• ;	01	0 1	- 1	0 1	0	0	0	080	81
CONSTRUCTION	3,000	0 0	0 0		ğ		0 0	è.	2,0		> 0	ě,	10,135	327
piris	28,294	00	0		9 0	60	0 0	0	0 0	8	0 6	8	26.735	3 5
Venezuela	4,654		202		253	0	• •	486	4,811		0	6,135	10.806	349
ubotal Other CPEC	46,496	۰	595		438	c	0	585	4,919	ε	۰	6,605	53,100	1,713
¥														
Angola	2,257	0	0	0	0	0	0	0	0	0	۰		2,257	2
Australia	0	ā	50	۰	0	0	0	0	0	0	0		372	72
Seremas		0	Ę	•	0	0	0	•	ž	0	۰		55	â
British	ŝ	0 0	00	0 0	ž	0 0	00	0 9	0 (0 4	0 0	ğ	1,181	8
Canada	7.054	6.172	125	419	200	0	0	100	3	10.	200		10 000	607
France	0	0	٥	0	0		• •	۰	170	0	8		232	1
Ghane	0	0	۰	0	e	0	0	0	330	•	0		350	2
Melaytas	1,943	0	0	0	۰	0	0	0	•	0	0	0	1,963	3
Meason	E C	200	0 4	0 0	ε	01	0	44	478	-	-	500	24,386	783
Methods Artifice	9 0	8	•	0 0	282	00	00	2	9	0 0		200	200	
	4481	0		0	9	•	0	ş	9	0 0	5	ì		2 1
People's Papulate of China	1,101	0	175	0	1001			*	2	š	8	1.450	2,539	8
, and	408	0	0	0	٥	0	0	0	2402	0	0	362	670	22
Justio Rico	0	0	334	0	135	0	0	900	0	0	548	1,178	1,176	38
resided and Totago	3,212	0 0	0 0	0 0	0	c	01	22	0	0	Š	233	3,445	Ξ
Charleson		00	•	0 0	0		0	0 0	0 0	0 0	1		-	8
Vicio latenda		0	g	0	0.400	Ę	9	1 243	9.200		2	:	24412	25
990	88	0	0	0	0	0	0	0	i	0	900	°	600	5 5
Other Westons	,	•		٠	•							1		
Who Enfort Homisphen	200	4	ŀ	92.0	ì	0.0	0.0	9	969	000	9	200	23	S.
Subtestal Other	800.00	7,042	3,039	950	5,767	475	. 5	3,033	10,652	330	4,58	35,800	98,736	3.122
oth Imports		2.042	4.18.5											

Column C															
	Source	Outs Of 1	S band	Cher Shed Ols	Stending Compo- nents	Phahad Motor Gasothe	F P	Zene Sene	O Push	See Fee	Special	_	P P P P P P P P P P P P P P P P P P P	Petro Rum	Total (Dark) Avverage)
Color Colo	'							PADD	listhoot il						
	her OPEC	5,802	• •	00		••	00	00		00	00	00	00	5,802	187
1	anada.	88,	5,310	121	•	3			-	g	ħ	E,	6,633	12,170	986
	scion scion	3,012	00	00			0 0	00		00	0 0		ε	E .	3
	ONNE	1,527	0	0		0	۰	0		0	٥	٥	0	1,527	4
1	the Factor Herrichan	8				9 0	0 0	0 0			a 4	0 0	0 0	3,936	<u> </u>
Section 15 15 15 15 15 15 15 1	dototal Other	14,900	6,310	121	•	8				300	127	P. Fe	6,503	21,508	88
	al Imports	22,867	5,310	Ē	408	25	۰	0		303	127	£.	6,503	29,370	ź
								PAD D	Strict III						
	th OPEC	8	•	٩			ľ	ľ		!					
	County Co	90	0	9 6		0 0	9 6	9 0		3 8	0 0	0 0		3	3:
	and Arabia	11,063	0	0		0	0	0		8	0	ğ		12.531	4
	nited Arab Emeates	44	0	0		0	•	0		۰	۰	8		2,615	2
Compared by Comp	UDIDOR AND CHEC	1,200	0	0		0	0	0		1,514	0	1,315		17,002	8
	ner OPEC	1													
1 1 1 1 1 1 1 1 1 1	Cuedor	88		0		0	•	0	0	0	0	0	0	385	12
	donesia	3 2 2				0 0	00	0 0	•	•	•	•	0	8	83
1	U CONTRACTOR OF	2.153		0		0	0	0 0	9 6	9 6	9 6		9 0	200	23
	gota	17,480		a		0	0		0	0		• •	8	17.000	3
	encode	2,616		278		0	0	0	0	1,343		0	1,619	4,235	137
1	DOIGH OWN CHECK			2/8			0	0	0	1,343	£	0	1,619	27,479	200
	900	1,783	0	۰		۰	0	0	۰	۰	۰	6	۰	1,792	3
	ustrala	•	ä	278		0	٥	٥	0	0	0	0	372	82.58	12
	attentis	•	0	330		0	0	0	0	0	0	۰	802	502	-
	playels	512	0	0			0	•	o	o	0	0	•	515	-
	endero.	15.788	708	0			0	0	9	238	-	10	8	16,760	25
	edisclands Artifles	0	0	8		•	0	0	٥	۰	0	•	ş	40	2
	COMBy Command	8	0	0		0	0	0	0	0	0	•	0	385	13
Microscope 27% C	march of respective of comme	į	•	•			•	9 0	0	9		2	- 1	ğ	8
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200	roin Islands	0	0	100					• •	•	•	2694	97.0	0220	3 5
	Zario.	350	0	•		•	0	0	•			•		100	;

Total (Daily mention)

Table 22. Exports of Crude Oil and Petroleum Products by PAD District, July 1962 (Thousands of Barrels)

		Petroleum	Petroleum Administration for Defense Districts	n for Defen	se Districts	
Comments	-		E	×	>	Total
Orde Of (netoding lease condensate) 1	8	8	۰	0	6,156	7,106
Jauriled Petroleum Gases and Ethane	8	4	942	٥	99	1.154
Ethano	8	c	8	0	9	8
Propane	2	e e	200	٥	8	9
Butano	13	100	335	a	98	613
Butano-Propano Modures	0	0	0	0	0	
Friehed Notor Gaschne	29	8	88	0	4	95
Nechtha-Type Jet Foel	0	•	۰	0	0	0
Cerceine-Type Jet Foel	0	0	0	0	35	B
General Communication of the C	-	0	٥	0	60	-
Neghtile Fuel Oil	105	0	700	٥	280	7.28
Insidatel Fluid Oil	-	0	5,844	٥	1,562	7,406
Applifix < 400 Deg for Petrochem, Fredstock	30	8	5	-	12	105
Other Olis > 400 Deg. for Petrochem, Feedstock	3	8	882	٥	11	997
Special Naphthas	*		48	0	8	95
Ubricards	125	13	339	-	ē	609
War	4	W	8	G	**	20
Petroleum Coke	270	431	1.743	8	2002	4677
Asphalt	e	45	-	-	-	3
Aspellantous Products	10	-	8	۰		8
Total Product Exports	767	201	10,139	8	4,393	15,687
Total florests		4 000		٠	-	

— Exercise of index is an expension under round contractions. Some major all adopted to Charlot in entitings on a baselies, possessor of notes the farmer fine and the Virgin Sating an individual because these territories are U.S. possessors. — Less the Stot because these territories are U.S. best relate used not extend an opportunity of contraction and the Virgin Sating and the Virgin Sating and the Virgin Sating and the Virgin Sating and the Virgin Sating and the Virgin Sating and the Virgin Sating and the Virgin Sating and

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Table 23. Exports of Crude Oll and Petroleum Products by Destination, July 1982 (Thousands of Barrels)

4. Stocks of Crude Oil and Petroleum Products by PAD District, July 31, 1982

Conmodity	-	Accession	ľ	Armele.			Sete	l	١.	Н	1	ŗ	ŀ	Í		>	Inte
	Coast	S in	Total		i i	Wies.	Kans.	Total	niend	Done H	2 June Comment	48	Messeo	TO SEE	Rocky	West	States
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ank Farms and Positions	11	1 1	9,041	11	1 1	11		15,123	11	11	1			46,681	2,301	988	9.9
46546	į	ı	63	ı	ł	ı		1.578	1	1		1		7.944	1468	1.560	29.7
Strategic Petroleum Nessevel	ı	ŧ	0	ı	ı	ı	ı	٥	ı	1	ı	ı	-	57,154	۰	c	267,1
Necessary In-Transit	П	11	17,825	11	1.1	1.1	11	74,128	11	11	11	11	11	423,853 1	3,718	25,562 52,366	611,720
etroleum Products Rotiney	42,462		46.030	1,128		6.315			9,780		0,000	4,051		145,378	2,454	65,632	344.7
Buk Teminal	113,709		120,620	3,897		0,285			4,500		8,686	4,429			2,203	705,CK	250.4
Valural Gas Processing Plant	ā	2	10.		2,675	260	10,496	22,431	4,728	27,304	10,622	3,622	1001	47,071	88	9	72,138
CAM	190,606		194,196	9,382		10,405			1,007		1,611	26,602			7,971	60,876	782.1
Astural Gasoline and Isopentane	٠		•	4	8		1	-	1	-	100	•	į	i		į	
Yorke	. 0	- 0	9 0	00	8	w @	300	410	98	88	200	40	4	100	- 6	8 8	
Natural Gas Processing Plant	ne	2 5	20		88	82	980	100	88	200	465	51	88	4,733	9	1118	8713
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Natural Gas Processing Plant	0	90	00	00	ä	-	1,619	1,715	ž	3000	18	a	9	3,000	ā	o ex	2,50
	•	-	•	0	1	-	1,928	1,802	412	1000	2	ě	2	3,730	ă	N	e e
Sant Condensate																	
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Netural Gas Processing Plant	0	0	0	0		0	*	ĕ	43	30	0	4	-	87	0	0	2
OW	0	0	0	0	13	0	*	11	843	910	95	103	2	1,536	0	0	1,68
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Diff. Territori	0	0	0	0 0	9	0	•	190	9 0	1.194	90	- 0	0 0	121	00	- 0	1.041
Peeline	0	0	0	0	20	878	101	1,198	216	12	115	0	0	900	0	. 0	-
Nebral Gas Processing Plant	0	0	c	0	23	0	233	300	8	1,551	142	-	0	1,717	3	0	200
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Propane for Petrochemical Feedsfock Use																	
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	-	-	Ş	0	ß	0	D	8	0	-	490	0	0	457	0	0	8
ropane for Other Uses																	
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Vehinal Gas Processing Plant	388	616		0	2,384			16,209	2,429	6,020	6,235	3,614		0,544	ä	545	8

	Gra	Dienter	Γ		OV.	PAD District		Ħ		ŀ	PAD Detroit I	Ιŀ	ŀ	Ť	9	2	lame.
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tuture Propert Nictures for Petro. Feed. Refrinty.	*	00	00	00	00	00	0.0	00	00		00	00		00	00	00	0.0
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Boak Yominal Mictures Boak Yominal Populo Notal Gas Processed Plant Total	0000	6000	0000	0000	0808	0000	4.28.82	4882	25.25	2,166 125 5,863 8,176	0000	0000	35 56 o	2,412 978 0,238 9,738	999	0000	2,416 1,760 7,008 11,184
webutana Beffrony Bulk Teminal Psysies Washai Gas Processing Plant	00000	W0042	00000	80008	88 84 5	80008	85 to 18 18 18 18 18 18 18 18 18 18 18 18 18	88 t 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25558	883,1 881,0 81,4 81,4 81,4	\$ 0 0 St.	50022	4.83.0	3,788 3,708 6,219 6,219	% o 4 - 5	80008	1,513 1,000
Other Hydrocartoons and Alcohol Refinery	0.0	88	នន	00	90	00		901		FF	នន			88	00	22	ñ E
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Motor Gasoline piccotts				1			g	1	D.	-	See See	ž	leoco	Ē		ii ii	States
Definery													1	1		100	
Bulk Terminal	ģ	20,	4,676	25	5,875	8	2.149	8 830	1.464	0.740	ļ						
Potte	•		5		ă	N	8	315	191	3	2	8.	а	18,423	1,560	8,143	1,443
80	4,886	85	4.946	2	9	~ {	2	303	8	0	0	- 0	00	88	0 0	ę.	20
Aviation Gasceles Illending Commonents						è	5	9,58	8	27.5	7,838	139	2,7	18,683	,38	8,623	43.082
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Total Pinished Motor Gasoline						•		3	ž,	ò	ņ	0	0	242	. 0	8	9
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Pication	35,781	3,100	38,881	1,802	17,398	96	1212	10,575	1,852	8.201	5,521	3		7.354	2.044	0000	900
Natural Gas Processing Place	17,915	800	14,745	909	6,130	ä	7,323	15,280	3 6		8	277		11,400	1,107	9,486	88.451
Total Finished Motor Gascine	200	100	2	9	0	0	•	٥	0	·		9	2.0	18,587	Ę	2,036	51,689
Finished Leader Motor Greater		ì	9	200	13,467	6,625	15,763	60,343	2,958		0,914	0,580	-	2,350	4280	975	15
Reference month describe																	
Bulk Terminal	200	9	2222	\$	2,904	38		5.847	ě	1007	0.000						
Poeline		9	19.745	8	0,711	2		14.499	1	/ 1	5	7			1,236	3,843	21.112
Natural Gas Processing Plant	000	į,	6,685	442	3,438	787		8.77	200	9 507	2	2			8	890%	46,324
Total	28.958	1 800	20 002	٠,	0	۰	۰	0	0	ľ	90	90	g <		8.	8	25,594
Philabed Unlended Motor Guesting					600	Š		100,83	2,611	9,481	5,316	4,914		22,656	272	2000	15
Refinery	0000																
Bulk Terminal	17.459	22	200	ş	3068	88			929		0,769	900					
Total	7,384	8	7,880	£ £	966	8			1,049		881	1,185					21,477
	27,042	2250	29,341	1,088	4,382	2362	8,906	20019	88	2740	98	4248	2	10,488	405	2	96 186
Gasobol											980	976		_	_	85	19,761
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Total	-	0	2	0	, 2	0 0	۰,	0 5	0 0	0	0	0	0	0	2	y	1
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Thished Antagon Cascoline											,	,	,	0	N	o	88
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Natural Gass Processing Plant		00	01	0	0	0	8	2	8 *	ξ.		8	÷	5	7	337	1,235
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Total	405	, \$	280	2	- ;	D §		174	154		2				2 8	8 ;	88
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Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, July 31, 1982 (Thousands of Barrels) (continued)

	ă	PAD District		١	8	PAD Derrict 6	L				O COVID	Detect III		ľ		DAD	
Commodity	Coest	Appala chian	Total	Ohian at 2	1 N	Menn. Wilder.	単調を	To the	Teness	Gurt Gurt	iğ.		New	10 To	Perely IV	N N	United
Lubricants Referey																House	
Boght Stock	7	88	222	00	88	0 0	8 5	12	0 (542	8	0	0	8	s	¥	1,027
Otto	200		908		25	00	2 5	300	3 0	200	200	2 3	90	2,330	6.0	83	5775
Bulk Terminals	915		1,139	13	Ę	18	8	88	*	8	528	F	0	333	-	2	2.781
Total	2,372	-	3,542	13	1,277	6	909	2,118	8	4,311	1,061	300	m	6,312	2	1,402	13,518
Max, Microcrystaline Retinery Total	••	2.3	88	00	00	00	2121	88	អង	88			00	5.6	00	••	និនិ
Nat, Crystaffine-Puby Refined Ratinery Total	12	នន	33	00	8.8	00	88	82	00	al al	88	00	00	88	-010	8.8	88
Max, Crystaline-Other Referery Total	44	88	RR	00	***	0.0	e w		00	572	00	• •	00	裝裝	00	22	88
Petroleum Coke Referency Total	88	00	88	00	\$ \$	213	22	1,100	00	111	88	9.5	0.0	248	88	2584	28
Relicory Bulk Terminal	21,23,4 21,23,4	825	2,753 5,082	858	2,674 1,384 4,068	28 82 82 88 88 88 88 88 88 88 88 88 88 8	8 4 8	6,007 2,480 8,547	2 . 2	80.8	88.5	\$82	138 0	3,214	2,438	2088 442 2538	16,134 5,934 22,068
Refinery Total	00	00	00	00	34	00	**	8.8	00	00		***	00	N N		88	2.2
Riccellaneous Products Berkney Bax Formial Popler Nahral Gas Processing Plant TOM	24 12 20 0 88	80%08	\$2208	-0802	8500 B	ā u o o d	£ 200 t	និនខេត្តនិ	0 0 N 2 N	25 2 2 1 1 2 1 1 1 2 1 2 1 1 1 1 1 1 1 1	800-5	88.85	- 00 - E	748 1,376 2,892	00000	88008	1,088 1,380 3,382

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709,981 31,889 173,272 1,380,907

207,145

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211,821

Fotal Stocks, All Olls ...

Table 25. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, July 1982. (Thousands of Barrels)

From V to

From IV to

From It to

From II to

Srom 1 to

		•	2000				2				2		-	2			
No. 10 N	Commodity	-	=	>	Н	-	5	2	-	-	2	>	=	2	>	-	=
	Crude Oil	3	°		a	۰	۰	٥	ij	1,806	۰	۰	٥	۰	۰	2,197	14,584
Continue Continue	Petrojeum Products	8.906	989		8	107.3	6349	2,346	84,918	25,792	0	3,381	1,223	0	1,139	8	9
	Netural Garolem and Incombine	0	٥		0	۰	334	۰	٥	1,181	٥	0	324	۰	0	٥	۰
	Unfractionaled Steeps	0	٥		۰	0	٥	0	٥	0	0	a	0	٥	۰	٥	٥
	Plant Condensate	0	٥		۰	۰	٥	۰	٥	8	٥	٥	0	٥	0	٥	۰
	Confed Patroleum Course	0	22		0	8	1.548	8	1,779	4,197	۰	0	٥	٥	٥	٥	٥
	Infriedad Cits	00	٥		0	0	۰	0	287	36	٥	190	0	٥	0	۰	۰
	Motor Gwoline Blendon Comprosots	0	٥		۰	0	0	0	٥	85	٥	0	٥	0	٥	٥	۰
	Aviation Gasoline Bisering Components	0	۰		0	0	0	0	٥	۰	۰	0	0	0	0	٥	٥
	Finshed Moor Bassien	1909	423		8	872	1.854	1.386	50.878	11.905	۰	1357	514	0	Ř	0	۰
	Firished Leaded Motor Gasofine	3,449	R		0	2	1,223	919	22,020	6,026	۰	100	86	0	250	٥	٥
		2,612	28		2	ē	ž	282	27,979	5,879	٥	2	ğ	٥	415	٥	۰
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200 000 000 000 000 000 000 000 000 000	Firshod Aviation Garding	٥	۰			٥	٥	8	185	188	٥	٥	0	٥	0	٥	٥
	Nachthe-Type Jet Fuel	121	۰		0	0	5	0	659	2	٥	172	10	٥	8	٥	۰
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## 00 00 00 00 00 00 00 00 00 00 00 00 0	Kerosene	6	۰		٥	۰		٥	338	138	٥	٥	0	0	٥	0	0
200 000 000 000 000 000 000 000 000 000	Dathha fuel Ol	2,300	٥		۰	8	8	Š	19,781	4,394	٥	413	371	0	256	٥	
	Desiliate Fuel Oil Less No. 4	2339	۰		٥	330	959	Š	19,730	4,394	0	413	375	٥	200	٥	۰
38 15 15 15 15 15 15 15 1	No. 4 Fuel Oil	٥	۰		۰	0	0	0	\$	0	٥	٥	o	٥	0	٥	٥
7	Residual Rusi Oil	0	88		0	35	£	0	3000	8	e	924	0	c	a	8	â
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Foedstock	B	163		٥	83	8	٥	85	8	۰	0	٥	0	0	0	0
77 25 0 0 25 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Special Nuchthes	c	a		۰	15	a	e	303	184	c	e	c	c	c	c	-
	Untricants	4	8		0	8	Z,	0	397	38	0	3	0	0	0	0	
- 0 0 0 161 0 0 483 488 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		۰	0		0	۰	۰	٥	۰	٥	۰	0	o	٥	0	٥	0
0 4 0 72 0 0 176 138 0 0 0 0 0	Aughait and Road OB	٥	٥		0	161	۰	٥	483	438	٥	۰	•	0	٥	٥	٥
	Manshineau Products	0	4		0	22	0	۰	178	138	c	٥	c	a	٥	۵	٥

Note: Teal may not equal sum of components due to independent sounding. Sources: See Explanation Notes on Deta Collection and Estimation.

0 1,139 2,217 14,604

0 3,381 1,223

83 2,701 6,349 2,346 85,349 27,598

699

8,842

Total All Products

Commodify	2		From II to			From	From III to		Ĕ	From IV to	
	=	-	2	2	-	=	2	>			,
Natural Gesolve and Isopertane		ľ	1							-	-
- ritractionated Steem		9	Ř	0	0	1,181	G	٥	8	•	
Plent Conduments	9 4	0	0	٥	۰	٥	c	•	•		٥.
Applied Petroleum Conner	9	0	0	0	٥		•	0	,	,	9
Motor Gatoline Slevéno Communica	٥	8	25	3	1,614	4 367	0	0 0	9	0	0
Non-Gannaton Disselve Company	0	0	o	c	•				5	٥	٥
Chicken 14 to 19 Components	0	a	c			3	9	0	0	٥	0
Western mouth (absorbe	4,787	784	1 064	3	,	9	0	o	٥	۰	٥
Parente Utabad Motor Caspine	2,692	34	200			10,773	٥	ž	514	۰	ě
THORNO UNRESCHO Motor Gascina	2005	707		5	475.01	000	۰	438	999	c	300
Gasobol		ş	8	ğ	2,60	5,250	0	428	35	0 0	
highed Avietion Gasotine	•		0	٥	0	0	c	•		00	9
Aphtha-Type Jet Faw	5	0	0	18	88	139	c	00	0 0	5 1	0
Kerneton Tyre As Day	0	٥	5	٥	273	0		,	,	9	0
Cornegos	190	8	26	944	200		9 (2	10	0	8
Designation from Co.	=	0	٥	•		į		100	*	0	88
Class Section	1,553	168	959	000	1000	28	٥,	0	0	0	٥
COLUMN TUST ON LINES NO. 4	1.553	140	900	į		9	D	413	E,S	0	288
NO. 4 Page CS	1		3	ä	200	4,036	a	413	374		
Plesidual Fuel Or	0.0	01	9	0	0	a	0	g			3
Misoslanicus Products		9	0	0	٥	٥	c	•		, ,	٠.
- Company of the Comp	0	e	0	c	c				,	9	D
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO	6,467	1,020	4.550	2000	00000			9	0	0	0
						200	0	88	25	c	1.139

Table 27, Movements of Crode Oil and Petrodeum Products by Tarker and Barge Between PAD Districts, July 1902 (Thotasanists of Barwels)

Commody		St. most	Ī	From It to	9			Flore	From 19 to			From	From V to
			>	-	=	-	New See	8.8	100	-	>	-	
Criste Oil	ä	0	°	0	٩	1			2		1		-
Petrofeum Products					,		o	Ş	0	1,806	0	2,197	14,554
Aquefied Petroleum Gasses	5	8 8	2 <	782	8	21,814	1,107	3,256	17,541	3,345	1 796	8	
Junished Oils	00	9			9	200	0	0	168	a	9	3 4	
Pristrad Motor Gasobre	1 274	8	8	•	0	287	c	8	8	261	8	0 0	
Freihird Awation Geoclaro	0	9 0	3 0	9	0 4	900	S	8	9,358	1,128	4	0 0	
Addition Type Let Poet	ŭ				0 0	167	37	\$	2	9	9	9 6	
Reforement type det Puel	•	0.0		9	0	380	0	0	380	0	•	> 0	
Kerceene	8	0 6	0 0	3	0	2,121	474	201		241	7	0	
station Fuel Ca	ļ			9	0	8	0	99		•			
Pessidual Fuel Cil	•	9	00	3	0	4,528	382	1,070	3 173	5.5	9 0	00	0
Nightha and Other Olls for Petro. Feed, Use	ē	ş	9 4	į	718	9000	60	885		240	ì	9	
Special Naphthes	, 4	3		8	8	82	0	8			1	q	
ubroants		9	9	2	0	303	0	2		3	9	0	
Wax	: '	8	0	8	2	397	c	300		5 1	9	D	
Asptalt and Raid Cul	0	0	0	0	a	a		3 9		9	1	0	
Macellaneous Products.		0	0	101	0	683	c	940	ì	9	0	0	
	9	*	0	0	0	178	•	200	į	2	D	٥	
1					•		0	250	99	b	0	0	
2,375 605 83	2,375	8	8	762	ğ	22.335	1,107	3,600	17,541	5,151	1,725	2.217	14 604

		P.A.D. Demet	_	o.:	A.D. District II		σ,	A.O. District IV	2	a,	P.A.D. Detnot IV	2	4	P.A.D. District V	
Commodity	Paceipts into PADD 1	Shipments from PADD 1	Net Receipts PADO I	Recepts Into PADD II	Shipments from PADD it	Net Recepts PADD II	Rocopts nto PADD III	Shoments from PADD III	Net Recupts PADD III	Recepts into PADD IV	Shaments from PADO IV	Net Paceipts PADD IV	Recepts into PADD V	Shaments from PADD V	Net Pacepts PADD V
Crude Oil	2,619	ā	2,985	1,840	۰	1,840	14,58	2,226	12,356				•	16,761	-16,761
Patroleum Dendurts	02.690	0.667	78 082	26.829	10.986	26.497	8,045	114.001	-106 016	2 346	0.180	-18	4 800	90	4 543
Noural Gasoline	0	°	°	1,506	100	1.161	324	1.181	-057	°	329	-324	0	0	
Univactionalist Stream	0	0	٥	0	0	۰	٥	٥	٥	٥	٥	٥	0	۰	0
Plant Condensate	0	0	a	ev	0	N	0	Oų.	7	0	a	٥	0	a	a
Liquefied Petroloum Gases	2,612	35	2,588	4,197	2,441	1,756	1,572	5,976	-4,4D4	8	0	8	0	o	٥
Unfinished Ots	287	**	279	369	0	209	٥	738	-738	0	٥	٥	180	0	180
Motor Gasoline Blending Components	0	0	٥	959	0	658	٥	858	-658	0	0	0	0	0	0
Aviston Gasoline Blanding Components	0	٥	0	0	0	٥	۰		0	0	0	۰	٥	٥	0
Philated Motor Gasotino	61,850	6,573	45.277	18,480	4,232	14,248	2,233	64,140	-61,847	1,396	1,218	178	2,144	0	2,141
Firshed Leaded Motor Gasoline	23,340	3,485	16,855	9,834	2,478	7,356	1,259	29,506	-28.247	814	3	166	870	٥	870
Firethed Unleaded Motor Gascline		3,086	25,422	8,646	1,754	6,802	1,034	24,634	-33,600	582	929	č,	1.274	0	1,274
Gasobol server server to the server		٥	0	•	•	0	۰	٥	0	0	0	0	٥	0	0
Finshed Availon Gasoine	185	0	186	180	23	174	۰	384	-384	a	0	52	٥	٥	0
Naphtha-Typo Jet Fudi		121	545	133	2	č.	6	837	2,7	0	102	-109	264	0	364
Keroseite-Type Jed Pusi	0,580	123	6,457	1,000	847	758	97	8,233	-8,136	979	89	585	339	٥	350
Konstone		9	257	216	0	216	٥	473	-673	0	0	۰	٥	0	0
Distins Port Of	19,967	2,330	17,657	7,065	1,063	6,012	999	24.588	-23,952	221	699	438	101	0	701
Distrible Fluid Oil Least No. 4	-	2,330	17,009	2,005	1,063	6,012	959	24,540	-23,884	221	650	909	701	0	102
No. 4 Fuel Oil	48	0	40	•	٥	0	٥	48	Ť	0	0	0	0	0	0
Residuel Fuel Or		g	9,028	259	909	-710	781	4,273	-3,482	0	0	0	954	9	961
Naphthy and Other Cas for 1969.															
Feedblock Use	110	220	-110	9	16	0	216	115	101	0	0	0	0	٥	0
Special Naphrings	918	0	918	164	22	140	0	467	-467	0	0	0	٥	9	0
Concernity	450	33	413	968	7.4	166	÷	789	-748	0	0	0	Ŧ	0	2
Wax		0	0	0	0	0	a	٥	٥	0	0	0	0	٥	0
Augkalt and Road On	ž	0	949	438	161	277	0	923	-921	0	0	0	0	0	0
Mejouliaristus Products	ŝ	*	M7	138	R	99	•	316	-015	0	0	0	•	0	0
Total All Predacts	90,258	9,091	90,667	37,663	10,796	27,367	20,519	116,319	-95,70	2,346	2,362	91-	4,603	16,627	-12,218

Neur Total may not opail sun of echoponents due to independent countries. See Exploratory Hetes on Data Codection and Estamblen

(moderates of Barrels)																	
	2	PAD Degret I	_		P.	AD Detrict 1	L	ĺ	ĺ		Date Poster		l				ı
Commodity	11 8	Appeals chan is	Total	Apple chian	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Web.	Kars.	Total	Teoss	or in	18		No.	100	Post V	West v	United
Fuel Oil to 0.30% to 0.50%	000	400	4640	000	800	000	000	80		\$ 25	14.	52.00	ă,	108	2	ă,	1
0.51 to 1.00% Softer 1.01 to 2.00% Suffer Gressor Than 2.00% Suffer	000	0 10 0	000	000	2002	000	000	0004	在約束口	0 = 0 0	°°°;	0-08	0 10 00	4 15 to 6	8000	0000	4000
Residual Fast Off	**	157	3,839 1,026	200	2249	\$ ° °	£ 0 th	3,399	8 5 5	7,00x 552 523	822	885	អ៊ីនិន	15,645		2812	200
1.01 to 2.00% Sufur Greeke Than 2.00% Sufur	1,552 36 78 40 78	000	និន្ត	200	ឡិនដ	983°°°	EE 4	1,578 1,088 1,088	202	2005 2005 2005 2005 2005	1,272	8.08	- 2 g	17.48	888	1123	1223
Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation	due to	Estmalic	ant rounx	g											1		1

	ľ	1		١	84	DAD Diemet	-	-		Ш	PAD District III	E P		ì	g	DVD	
Commodity	S Elect	Appela-	Total	Chan	, K	Wen.	App.	Total	Press District	Gerr	al go S		New T	100	Poetsy Mr.	West V	States
to, 4 Fuel OII - 0.00 to 0.30% Suffur	ľ		1	1	,	۰	۰	**	۰	8	8	en	0	55	0	0	2
Bak Terreial	44	0 4	8 g	00	0.00	00	00	0 N	00	o g	o g	- 4	0 0	- 82	00	0 0	8
No.4 Fuel Oil - 0.31 to 0.50% Suffer	•				r.		0	N	\$	0	0	0	0	#		91	81
Retrary Bulk Terminal	44		2.0	00	0 %		00	00	ဝန္	00	00	00		e e	o es	5 th	8 8
so, e Peel Oil - 0.51 to 1,00% Suther Bafnery Bulk Terminal Total	° 3 8	000	°ää	000	÷ \$ \$	088	900	t 22 00 51 00 50 51 00 51 808	ã°ã	° 8 8		Боб	8 8 8	000	808	55.50	
No. 4 Final Oil – 1.01 to 2.60% Sutfur Parfrey . Dark Termed . Total	.44	000	°ää	000	000	000	000	000	000	000	808	000	000	208	000	~ 8 2	825
No.d Fuel Oil – Greater Than 2,80% Sulfur Bridery But Tarminal Total	-88	0 8 8	-88	922	r+0	000	000	~ ± ₽	000	000	80 B	8 0 8	000	Ē.Ē	000	808	8 tr 85
Residual Foet Off — 0.00 to 0.30% Suffur Referency Dulk Tarminal	3,302	808	3,382	000	ឧន	000	000	°88	8.8	2, 0 g	2,026	888	5 o 5	2,061	5.5	55 to 85	1,489 5,083 6,592
testout Fori Oil – 0.31 to 0.50% Sulfur Refriety Bulk Terrenal	500	808	88.035.1	000	5.5	000		\$ 0 \$	808	8.8	808	\$ ° §	000	8.8	80°8	1274	3,488
Sesidual Fuel OII – 0.51 to 1.00% Suther Referency — Bulk Terminal — Total	4,853		0 1,428 1,929 1,339	9 1 50	1,489	000	828	£ 500	888	1,715 553 2,238	388	113	000	3,718 862 4,580	ü o b	8 28 68	857.7 45.70 45.00
Residual ruel OII – 1,01 to 2,00% Suffur Beforery Bulk Terminal Total	3,751		239 229 278 2,980	-88	388	622	25 85	1,357 966 2,336	808	88 25 55	282	5.05	-0-	1,210 808 2,013	808	1,378	7,714
Section Feel Oil - Greater than 2,00% Suffer Petrary Bulk Termonal 10, 10, 1011	10,647 10,647		25 10,475 29 10,880		8#6	506 113 573 252	# 8 %	58 E	\$ o \$	2,596 1,076 3,672	1,986 1,502 3,768	2 4 5	808	4,006 2,604 7,230	¥°.	888	6,324 13,820 20,144
Restaut Fuel Oil – Suther Content Not Specified Procine	¥		00					00	00		00	00	00		00	2.2	花花

Table 31, Imports of Residual Fuel Dil by Sathur Content by Country of Origin, July 1982 (Thousands of Barreis)

Country		ſ					1
and OPEC	0,00 to	0.31 to	0.51 to 1.00%	1.01 to 2.00%	Greatar Than 2,00%	Specified	Total
Vibra	1,034	0	0	0	0	0	1,034
Inst	0	0	0	0	0	0	0
Contac	3 °	00	00	0 0	0 0	00	880
Saud Arabia	, a	9 0			466	0 0	900
United Arab Emirates		0	0	0	•		9
Subspital Augh OPEC	1,567	0	0		988	0	2,301
Other OPEC							
Equator	0	0	0	0	0	o	e
Gabon	0	0	0	• 0	0	• 0	0
Indonesia	0	161	0	8	0	c	178
(ray)	0	0	0	0	0	0	0
Ngeria	0	٥	0	0	0	0	۰
Subtreal Other OPEC	7.5	808	180	44.0	2,496	00	4.811
Accords	•	•	•	•	٠	•	•
Australia		•					00
Dahamas	308	0	0	0	100	9 0	25.
Dolwie	0	0	0	a	0	٥	0
Bresil	0	0	0	0	0	0	0
Drumai		0	•	e	0	0	0
Control of the contro	£	0 (900	2 0	N c	0 0	941
Face	0	0	172	0	0	0 0	2
Grand	380		0	0	0	0	380
Ubośa	0	0	0	0	0	0	٥
Melayaa	0	0	0	0	0	٥	٥
Medico	0	0	•	0	472	0	472
Nethorianos	0 (01	•	P	0	0	0
		0 0	90	'n	2,963	0 1	9000
December Barrello of Chang	00	0 0	0 6	9	0 0	00	9
Decr.			9	2 6			2 5
Puerto Pico	00		0	0		0	000
Pomenia		٥	0	0	0		0
Spain	0	0	0	0	0	0	0
Syme	0	c	0	0	0	0	0
Tririded	0	c	0	0	0	0	0
Turistic	0 (01	0	01	01	0	01
United Angoom	9 6		1	2	3	9 0	3 380
Yespelania	0	•		90	\$ -	0 0	900
Zare	0	0	0	0	0	0	0
Othor Western							
Hormigenero	0	200	9	0	0	0	8
Other Espen Herrisphere	٣ŝ	8	367	8 5	2	00	900
SOCIOLE COMP.	ŝ	ì	9416		4,000	•	10,655
Total Imports	3,544	732	3,614	2,235	7,657	0	17,943

Sunte	0.30%	0.31 %	0.51 to 1.00%	1.01 to 2.00%	Gneater Than 2,00%	Specified	ig H
AD District	1934	919	2,767	2,053	0.350	۰	13,734
Porto		۰	663	Š	1,512	0	2,789
Maine	0	٥	٥	٥	613	٥	613
Mandand	٥	0	250	303	246	a	56
Meteochanette	٥	٥	172	0	1.150	a	133
New Jecsely	366	z	200	8	1,578	0	2233
New York	1,550	68	102	888	430	0	4,182
North Carolina	0	0	0	ä	0	0	a
Pentsykania	0	0	909	0	0	0	56
Rhode Island	0	0	0	0	150	٥	150
South Carolina	٥	0	0	٥	8	٥	8
Vrgiris	٥	٥	289	g	613	0	86
PAD District II	a	٩	282	30	•	•	380
Michigan	a	G	25	9	10		913
North Dakota	0	0	0	8	e.	٥	22
Otto	0	0	2	0	0	0	2
PAD District III	1,608	٩	989	٩	1,289	•	3.463
Louising	1,273	0	180	a	670	0	2 410
Texas	22	0	387	0	ž	. 0	1,043
PAD Dietrict IV	0	a	0	0	0	۰	۰
PAD District V	**	178	۰	963	٥	٥	343
Hinesi	62	178	0	163	٥	0	X
Washington	0	0	0	0	0	0	G
All PAD Districts	3,54	742	3,614	2,235	7,657	•	17,843





Glossary

Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydregen, and oxygen. The series of melecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group, CH-(CH)n-OH, "Alcohol" includes ethanol and methanol.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens—as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of empisions (exclusive water), and petroleum distillates blended with asphalt to make outback asphalts. The conversion factor is 6.5 42-stillen harrels per abort ton.

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

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

Aviation Gasoline (Phished). All apecial grades of gasoline for use in aviation reciprocating angines, as given in ASTM Specification D 910 and Military Specification MIL_G-6562.

Barrell. A volumetric unit of measure for conde oil and netroleum products somivalent to 42 U.S.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in meet statistical reports. Pactors for converting petroleum coke, asphal; and wax to barrels are given in the definitions for these products.

Butane. A normally gaseous paraffinic hydrocarbon, C_iH_{in} . It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

Normal Butane—A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic
gas that boils at a temperature of 31.1° F. This classification includes mixtures of gases that
contain 80 percent or more normal butane.

· Other Butanes-All butanes not included as normal butane or isobutane.

Butane-Propase Mixtures. Mixtures consisting exclusively of botane and propane that conform to ARTM Specification D1838 and Gas Processors Specification for commercial butane-propane. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, CaHa recovered from refinery processes. It is reported in the "Butane" estegury.

Coal. A generic tarm applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either soll or brittle and are highly combostible. Includes lignite, bituminous coal, and anthracits which conform to ASTM Specification D 388.

Crude Oil (Reducting Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in undergrand reservoirs and remain lain quite at atmospheric pressure after passing through surface separating facilities. Lease condensate is included. Drips are also included, but topoed crude (realized) oil another ministrate did sea excitotical. Chrustia produced the stateral gas processing plants and mixed with crude oil are likewise scientific about the condensate in the cond

Domestic—Crude oil produced in the United States or from its outer continental shelf as defined
in 43 U.S.C. 1331. Hydrocarbons such as shale oil and tar sand oil are included.

 Foreign—Crude oil produced outside the United States. Imported Athabasca hydrocarbons are included. Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on: and-off-highway dised engine fuel (including ratificed engine fuel and foel for agricultural machinery), and electric power generation. Included are products known as No. 1 and No. 2 heating oils, No. 1 and No. 2 dised fuel oils, and No. 4 fuel oil.

- No. 1 Fuel Oil—A light distillate fuel oil intended for vaporizing pot-type burners. ASTM Specification D 386 specifies for this grade maximum distillation temperatures of 400° F. at the 10-percent point and 550° F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centicates at 100° F.
- No. 2 Fuel Oil—A distillate fuel oil for domestic heating for use in atomizing-type burners or for moderate expacity commercial-industrial burner units. ASTM Specification D 398 specifies for this grade temperatures at the 90-percent point between 540° and 640° F., and kinematic viscosities between 2.0 and 3.6 centiatoke at 100° F.
- No. 1 and No. 2 Diesel Fuel Oils—Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D 975:
 - No. 1-D—A volatile distillate fuel oil in the 400° to 550° F, boiling range for engines in service requiring frequent speed and load changes. Type C-B diesel fuel, which is used for city buses and dimilar operations, is included.
 - No. 2-D—A distillate fuel oil of lower volatility in the 540° to 640° F, boiling range for engines in industrial and heavy mobile service. Type R-R diesel fuel for railroad compression-ignition engines and Type T-T for diesel-engine tracks are included.
- No. 4, Fuel Oil—A fuel oil for commercial turner installations not quipped with probesting facilities. It lue and extransively in industrial plants. This grade is a binnel of distillate fuel oil are residual fuel oil stocks that conforms to ASTM Specification 1986 or Fuderal Specification VVF-9.18C; in distinguish control with the conforms to ASTM Specification 1986 or Fuderal Specification (VVF-9.18C), in distinguish the tomorphism of the conformation of the

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa, and Australia. The Hawalian 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 paraffinle hydrocarbon, C₁Ha, extracted from natural gas and refinery cus streams. "Ethane" includes any product containing 90 percent liquid volume or more sthane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent

or more of the liquid volume. It is extracted for natural gas and refinery gas streams.

Ethylene. An olefinic hydrosarbon, C₃H₄, recovered from refinery and petrochemical processes. It is

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

Gas Well Gas. Natural gas produced from gas wells. Such gas may be either associated gas or non-associated gas.

- Associated Gas.—Free natural gas in immediate contact, but not in solution, with crude oil in the
 resource.
- Non-Associated Gas-Free natural gas not in contact with, nor dissolved in, crude oil in the

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

recervoir.

renorted in the "Ethane" category.

Isobutane. A saturated branch-chain isomer of butane. It is a coloriess paraffinic gas that boils its temperature of 10.9° F. This classification includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Isopentane. A saturated branch-chain hydrocarbon, C₅H₁₅, obtained by fractionation of natural gasoline or isomerization of normal pentane.

Kerossee. A petroleum distillate dast bolls at a temperature between 30° and 580° P., that has fluch point higher than 100° P. by ASTM bledd D 58, that has a gravity range from 40° tes 47° All point has a barriage point in the range of 150° to 17° F. It is a clean-burning product suisible for one as a librariage to the burnel is wisk hamps, including sprache of krossees called range of Maring product since in the state of the control of the state of the state of the control of the state of

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7° API, a 10 percent distillation temperature of 400° F., and an end-point of 572° F. It is covered by ASIM Specification D 1655 and Military Specification MILT-5824L (Grade JP-6 and JP-8). It is usel primarily for commercial utrebeit and turboprop aircraft engine.

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

Lease Separator. A turface facility used for separating casinghead gas from produced crude oil and water and separating gas from that pertion of associated gas and non-associated gas that liquefies at the temperature and pressure conditions of the separator.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, ethane-propane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionals raw natural gas plant liquids. Permerly called "Liquefied Gases."

Liques field Refinery Gasses (LRG). Liquesfiel petroleum gasses fractionsed from refinery or still gasse. Through compression under refigeration they are retained in the liquid stats. The reported extegering are eithen another eddyren, postness another proprieme, butten another budylens, butten-propriem mixtures, and insolutions. Evaluate still gases used for chemical or rubber manutatures which are reported as petroleumical flecthreds and also exceluted liquesting gases ready for biending into genolist sections. The contraction of the petroleumical flecthreds and also excellent fletthreg gases receipt feel to state of the petroleumical flecthreds and petroleumical fletthred refinery gases are reported for state.

Lubricanta. A substance used to reduce friction between bearing surfaces. Petroleam lubricants may be produced either from distillates or residues. Other mubitanes may be added to impart or improve certain required properties. "Lubricants" includes all grades of lubricating oils from spindle oil to crilidor oil and done used in greaces. The three enterestics reported are:

 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 distillate subricating oil bage stock with a viscosity that is usually not above 550 Saybult Universal Seconds (SUS) at 100° F. It is prepared by a treatment such as hydrofining, and treatment, or solvent extraction.

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

Miscellaneeus Products. Includes all finished products not classified elsewhere. "Miscollaneous products" include petrolatum, absorption ells, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and other finished products.

Motor Gasoline Blending Components. Finished components in the gasoline range that 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 relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gascline, as given in ASTM Specification D 489 or Pederal Spacification VV-0-1890B, include a boiling range of 122° to 188° P, at the 10-percent point to 886° to 374° P, at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gascline" includes finished leaded gasoline, finished unleaded gasoline, and gasoho, Blendstock is excluded until blending has been completed. Allowide that is to be used in the blending for gasobil as she excluded.

Finished Leaded Gasoline—Contains more than 0.05 grams of lead per gallon or more than
0.05 grams of phosphorus per gallon. The actual lead content of any given gallon, however, may
vary as a function of the six of the producer and company according to specific Environmental
Protection Agency waiver provisions. Premium and regular grades are included, depending on
the octane retain.

 Finished Unleaded Gasoline—Contains up to 0.05 grams of lead per gallon and 0.005 grams of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating.

 Gasohol—A blend of alcohol and finished motor gasoline that is no more than 30 percent of finished motor gasoline (leaded or unleaded as described above) and no less than 10 percent or more alcohol (ethanol or methanol).

Motor Gasoline (Total). Includes finished leaded meter gasoline, finished unleaded meter gasoline, motor gasoline blending components, and gasohel.

Naghtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of \$2.8° API and 20 to 90 percent distillation temperatures of \$20° to 40° P., meeting Military Specification MILT-96824. (Grade JP-4, JP-4 is used for turboight and turboprop aircraft engines, primarily by the military. This category excludes rannjet and petroleum rocket fuels, which are included in the "Miscellagous products" category.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Fleid Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensets from a stream of natural gas, however, some fidel facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Pinnt Liquida. Natural gas liquida recovered from natural gas in gas processing plants, and in some situations, from matural gas field diellies. Natural gas il quidas extracted by fractionation are also included. These liquida sex defined facellies. Natural gas liquidas extracted by fractionation are also included. These liquida sex defined according to the published specifications of the Ossessors Association and the American Societies for Testing and Matarrisia, and are classified us follows: Ethicas, program, ethicas-propages mits, independent, butter, program, ethicas-propages mits, independent, butter, butter, butter, program ethic, independent, contained, butter, program ethic, independent, and other product for matural gas marrial gas independent endomination, independent of the program

Natural Gas Processing Plant. A facility designed to recover natural gas liquids from a stream of natural gas that may or may not have been processed through least esperators or natural gas that may or may not have been processed through least esperators or natural gas least feel facilities. The facility also controls the quality of natural gas to be marketed. Cycling plants are classified as gas no recessing blants.

Natural Gasoline. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from naturals, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the C Producers Association.

OPEC. The acronym for the Organization of Petroleam Exporting Countries, oil-producing a exporting countries that have organized for the purpose of negotiating with oil companies on matter oil production, prices, and future concession rights. Current members are Algeria, Eccauder, Gal Indonesis, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, Venezuala.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crudistillation unit in a 24-hour period, making allowances for processing limitations due to type grades of inputs, limitations of downstream facilities, scheduled and unscheduled downstman. a cavironmental constraints, includes any shutdown capacity that could be placed in operation within days.

Other Hydrocarbons, Materials received by a refinery and consumed as raw materials, lacture.

hydrogen, coal, tar derivatives, gilsonite, and natural gas received by the refinery for reforming in hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum, principally for the maximum.

facture of synthetic rubber and a warfety of plastics. The estegories reported are "Naphtheless th 400° F. end-point" and "Other oils over 400° F. end-point."

Naphthaless than 400° F. end-noine—A naphtha with a need point of less than 400° F. and tha

- Naphtha less than 400° F, end-point—A naphtha with an end point of less than 400° F, and the
 reported as used as a petrochemical feedstock.
- Other oils over 400° F. and that are reported used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product reported as marketable coke or catalyst coke. The conversion factor is 542-gallon barrels per short!

- Marketable Coke—Those grades of coke that are produced in delayed or fluid cokers and when ye recovered as relatively pure carbon. This "green" coke may be sold or further purified calcining.
- Catalyst Coke—in many catalytic operations (i.e., catalytic cracking) carbon is deposited on catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carb which is used as fuel in the refinery process. This carbon or coke is not recoverable in

Partners Products. Persons products are abstract from the processing of code oil (factors conclusion), and the products are abstract from the products and enter a factor and the products and confinited oils, natural goals lead in operation, plant conclusate, unfortunated oils, natural goals and inoperation, plant conclusate, unfractionated stream, office liquidity persons, oil (all partners products) are producted persons, oil (all partners products) are producted persons, oil (all partners products) are producted persons, oil (all partners products) are producted persons, oil (all partners products) are producted persons, oil (all partners products) are producted persons, or (all partners persons, values, persons oils, oils, all partners persons of the products of the pr

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

Plant Condensate. One of the natural gas plant liquids, mostly pentanes and heavier hydrorarb recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocke. Stocks of crude oil or petroleum products held in storage at (or in) leases, refiner natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at less 5.00 barries of protection products or that can receive petroleum products by entance happen, or pipel of the products of the products of the products of the products of the store of an Pederal states or in the Strategie Petroleum Confederal Confederation Confederat

Propane. A normally gaseous hydrocarton, C₂H₈ extracted from natural gas and refinery gas stres. It is used primarily as a fuel and as a petrochemical feedstock. Propane is covered by AS Specification D1836, Gas Processors Association for commercial and HD-6 propane, and AS Specification for special city propane.

Propylene. An elefinic hydrocarbon, C_2H_4 , recovered from refinery and petrochemical processes, reported in the "Propane" category.

Residual Fuel Oll. Topped crude of refinery operations. "Residual Fuel Oll" includes No. 5 and Nel Oll is a defined in ASTM Specification D 396 and Paderal Specification VV-F-815C/Navy-Fight Oll is a defined in Military Specification MILIL-389E including Amendment 2; Bunker C fuel Residual fuel Oll is used for the production of electric power, space heating, vessel bunkering, arrafuss industrial purposes. Improst of residual fuel oil include "Improrted Crude Oil Burned as Fr

concentrated form.

Road Oil. Any heavy petroleum oil, including residual asphaltic oils, used as a dust palliative and surface treatment of roads and highways. It is generally produced in six grades; from 0, the most liquid, to 5, the most viscous.

Special Naphthas, All finished preducts within the gualitie range that are used as paint thinners, cleaners, and obsents. These proteints are refined to a specified flash point and have a boiling range of 90° to 200° P. "Special naphthas" includes all commercial becames and cleaning solvents conforming to ASTM Specifications D1886 and D 484, respectively. Naphthas to be binned of marketed as motor gasoline or winting ascellated as motor gasoline or winting the conformation of the c

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

Still Gas (Refinery Gas). Any form or mixture of gas produced in refiner in by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethica, buttane, butylene, bropane, propylene, etc. Still gas is reported for petrochemical feedstock use and refinery fuel use.

 Petrochemical Feedstock Use—Includes all refinery streams which are used by chemical or rabber manufacturing operations for further processing, less the amount of such stream returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butsdiene, etc. are considered petrochemical products; therefore, only their feedstock equivalents are included.

· Fuel Use-All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Feder Government for use during periods of major supply interruption.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanic blending.

Unfractionated Stream. Mixtures of unsegregated natural gas plant liquid components excludin those included in plant condensate. This product is extracted from natural gas.

Wax. A solid or sent-isolid material derived from petroleum distillates or resides by soch restances, as chilling, perceptiating with a solven, or deciling, it is a light-locker, nor-or-leus transverse crystalline mass, slightly greaty to the touch, consisting of anixture of solid hydrocarbons in which paraffin series profouniates, includes all markatable axt whether cryotes cale or fally reflicted. The three grades reported are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor 1280 possible per 42 gallots barrel.

 Microcrystalline Wax—Wax extracted from certain petroleum residues having a finer and les apparent crystalline structure than paraffin wax and having the following physical chara teristics:

Penetration at 77° F. (D-1321)—60 maximum. Viscosity at 210° F. in Saybolt Universal Seconds (SUS) (D-83)—60 SUS (10.22 centistokes) minimum to 150 SUS (21.8 centistokes) maximum.

 Crystalline-Fully Refined Wax-A light-colored paraffin wax having the following charateristics:

Viscosity at 210° F.

(D-88)—55.9 SUS (10.18 centistokes) maximum.

Oil Content (D-721)—0.5 percent maximum.

Other +20 color. Saybolt minimum.

Oil content (D-721)-5 percent minimum.

 Crystalline-Other Wax—A paraffin wax having the following characteristics: Viscosity at 210° F. (D-88)—59.9 SUS (10.18 centistokes) maximum. Oil Content (D-72)—0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

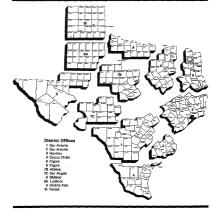
	Bureau of Mines Petroleum Refining Districts and PAD Districts
PAD District	Refining District
I	East Oast-District of Columbia and the States of Main, New Hamphire, Vermont, Manacheusti, Bodoci laised, Consection, New Ferny, Delawars, Maryland, Virpitia, North Corollas, Sand Carelins, Georgia, Florida, and the bilowing counties of the State of New York, Corogar, Tongojian, Carelins, Georgia, Porting, and the bilowing counties of the States of New York, Corogar, Tongojian, Perspectives, Company, Company, Company, Columbia, Mentour, Northensberland, Dauphin, York, and ell counties and thereof. Annaleschias at 1—The States of West Virginia, those parts of the States of Pennsylvania and New York.
	Appaiachian #1—17 as casted west virginia, most parted the States of I smag want and New York not included in the East Coast District.
	Appalachian #2.—The following counties of the State of Ohio: Erie, Huron, Crawford, Marks, Delawars, Franklin, Picksway, Ross, Pike, Scioto, and all counties east thereof.
_	Indiana—Illinois—Kentucky—The States of Indiana, Illinois, Kentucky, Tennossee, Michigan, and that part of the State of Ohio not included in the Appalachian District.
п	Minnesota-Wisconsin-North and South Dakota-The States of Minnesota, Wisconsin, North Dakota, and South Dakota.
	Oklahoma—Kansas—Missouri—The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.
	Texas Inland—The State of Texas except the Texas Gulf Coast District.
	Texas Gulf Coast—The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jachto, Montgomery, Harris, Galveston, Walter, Perl Bend, Brazeris, Waston, Masagordi, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricia, Nueces, Kleberg, Kenedy, Willacy, and Cameron.
ш	Louisiana Gulf Coast—The following Paribbes of the State of Louisiana: Vermon, Rapides, Avoyelie, Pointe Compes, West Feliciana, East Feliciana, Saint Helens, Tangipahae, Washington, and di Paribbes south better of Alouis Hellowing countaits of the State of Missialinghip: Feeral River, Skore, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alakama: Models and Baldwin.
	North Louisiana—Arkansas—The State of Arkansas and those parts of the States of Louisians, Misstaippi, and Alabama not included in the Louisiana Gulf Coast District.
	New Mexico—The State of New Mexico.
	Rocky Mountain—The States of Montana, Idaho, Wyoming, Utah, and Colorado.
	West Coast—The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

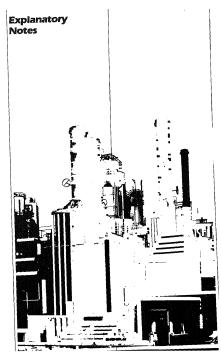
Petroleum Administration for Defense (PAD) Districts



Bureau of Mines Refining Districts







Explanate Notes

Explanatory | Note 1.1 EIA-64: Natural Gas Liquids Operations Report

Background

The EIA-64, "Natural Gas Liquids Operations Report" evolved from a survey designed and conducted by the United States Geological Survey beginning in 1911. This form collects data on the production ani storage of statural gas processing plants and fractionators.

Description of Survey

Tiniparsa

The universe includes all operators of facilities designed to: (1) extract liquid hydrocarbons from statural gas streams (natural gas processing plants); (2) experate a combined products liquid hydrocarbon stream into its component products, i.e. prepane, butane, natural gasoline, etc. (fractionstructs or 3) states the liquid bydrocarbon output of plants and fractionators.

The mailing list is automated. It is maintained by matching periodically with the LP Gas Almanor listings (including supplements) and the Oil and Gas Journal Processing Plant Survey listings, and by making changes reported by the respondents.

Information Collected

The data are submitted monthly by facility and include all products that the company controls through possession, regardless of ownership. The main items of information collected by the EIA-64 are shown by the example of the form presented below.

Collection Methods

Completed reports are required to be postmarked 20 days following the last day of the report month Follow-up telephone calls are made to nonrespondents in order to collect data before publication of the aggregated data.

Imputing Missing Data

Imputation is performed only for companies that submitted a ruport in the previous month. For each companies, previous monthly values are used for current values. The previous monthly sudifies at the value is used for current sudifies and the current monthly is ending at the value is used for their the current monthly beginning stocks and the current monthly ending attacks. The designation of the contract of the current monthly is predicted, precipitally, plant full use, and losses. In which calculates, it for the contract of the current monthly in the current contract of the

Response Rates

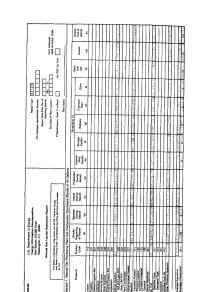
The initial response rate averages 85 percent, with a final response averaging 98 percent as a result of telephone follow-up procedures.

Data Bassarde

ved for identification section omissions, duplicate submissions, asi The data are then entered and edited. The edit program includes es, range checks for current-month to previous-month chudes calculation errors, line balancing errors, etc. Telephone calls are tions

89 and 90: Joint Petroleum Reporting

stem (JPRS) comprises four surveys: the "Refinery Report" (EIAsort" (EIA-88); the "Pipeline Products Report" (EIA-89); and the



"Crack Oil Stocks Report" (EIA-90, This group of forms collects data on petroleum refinery opera and on storage of cruted oil and petroleum products. The origins of JPRS lie in the voluntary petro reporting systems instituted by the Burcau of Mines (BOM) soon after it was established as a part. Denote the product of the Interior in May 1010.

Description of Survey

Linivarea

The respondent universe of each JPRS survey is defined as follows:

annual survey EIA-177 "Canacity of Petroleum Refineries."

EIA-87: All petroleum refineries and plants producing finished motor gasoline through mechanical blending of liquids which are operated or controlled in the 50 States, the Distri Columbia, Paetro Rioc, the Virgin Islands, Hawaiian Foreign Trade Zone, and Guarn.

EIA-88: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, an Virgin Islands that (a) have total bulk storage capacity of 50,000 barrels or more and/or (b) re petroleum products by tanker, barge, or pieline regardless of ownership of the material.

BIA-89: All products pipeline companies that carry petroleum products (including interintrastate and intracompany pipelines) in the 50 States and the District of Columbia.

EIA-90: Crude oil pipeline companies (gathering and trunk pipeline companies), crude oil produ terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by wate access of 1,000 barrels), regardless of ownership in the 60 States and the District of Columbia.

The list of respondents is kept current by checking for new respondents in the Oil and Gas Jos weekly magazine, newspaper articles, the Office of Resource Applications publication "Tren Refinery Canacity & Utilization" the Office of Refinery Congrations (FRA) lists of I(S. Refiners on

Information Collected

The main items of information collected by BIA-87, are shown by the example presented below ${\rm BIA-88}$ and ${\rm BIA-89}$ collect data on petroleum product stocks. The ${\rm BIA-90}$ collects data on crustocks and crude oil used directly as fuel.

Collection Methods

The data for the JPRS surveys are collected on a monthly basis. Completed forms are required postmarked by the 20th day following the report month. Telephone follow-up calls are mas nonrespondents in order to collect data before publication deadline. An automated mailing I maintained and is used to monitor receint of the forms.

Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For companies, the previous monthly where are used for current values. The previous month is ending as value of sused for both the current menth's beginning tables and the current month's ending tocks used for the current menth's sending tocks are submitted in the current menth's sending tocks used for the current menth's sending tocks are submitted in the current menth's sending tocks used to the current menth's sending tocks are submitted to the current menths are submitted to the current menths are submitted to the current menths are submitted to the

Response Rates

As of the filing deadline, the response rate of the PPES reproducts is over 90 percent. All comp that have not responded are constanted to the phone. All though data are taken by Delphone be exp processing, a certified submission is still required. Thirty calender days after the report mosth, data companies that still fail to file the form are estimated based on months data. A most of comp that fall to file for two consecutive months are forwarded to DDE for further monompliance at

Report Type B 0 1 EIA	Com	pany Identi	fication No.			Report Par		Mo.
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Note 1.3 EIA-161, 162, 163, 164 and 165: Weekly Petroleum Reporting System

Background

The Weekly Petroleum Reporting System (WPRS) comprises five surveys: the "Refinery Report" (E1A-161); the "Bulk Terminal Stocks Report" (E1A-162); the "Pleline Product Stock Report" (E1A-163); the "Cycle Oil Stocks Report" (E1A-164); and the "Imports Report" (E1A-164); and

The EIA weekly reporting system was dissigned to collect data similar to those collected unfor the monthly joint Parloman Reporting System(PRS) (See Note 1.2. In the WPSS, selected partering monthly of the Parloman Reporting system product injust on the Parloman Reporting system product injust on the Parloman RIA-of through EIA-dis production, and cross oil and parteriors product injusts and production and parteriors are product injusts on the Parloman EIA-of through EIA-dis, the parloman Reporting System Sy

Description of Survey

Universe

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly in either the JPRS system or the ERA-60 system (for imports). All sampled companies report data only for facilities in the fit States and the District of Columbia.

The sampling frame for each weekly survey is defined as follows:

EIA-161: Uses the EIA-87 universa, which includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gasoline.

EIA – IeS: Uses the EIA – 88 universe, which includes all bulk terminal facilities in the Uited States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline.

EIA—168: Based on the EIA-69 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural gas liquidase not included in the EIA-168 frame. Only those pipeline companies which transport products covered in the weekly survey are included.

EIA-164: Uses the EIA-90 universe, which consists of all trunk pipeline companies in the United States and its territories which transport crude oil, all refining companies, all crude oil producers, all terminal operators, and all storres of 1000 barrels or more of crude oil.

EIA-165: Uses the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico.

Sampling

The sampling procedure used for the weakly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers above 30 overest of the total for the previous time period.

Callection Methods

Data are collected by mail, mailgram, helphone, Telex, and Telefax on a weekly basis. All canvasced tirms and terminal operating companies must file by Kel0 p.m. on the Monday following the closed the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

Formula and Calculations

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data.

First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum, W). Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M. Finally, let M. be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies is given by.

$$W_i = \frac{M_i}{M_i} \circ W_i$$

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

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

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Under such conditions, the ratio method is known to result in large errors. Hence, a number of the procedures for estimating weekly imports were considered. The average ratio method was selected for estimating imports because it produces estimating imports because it produces estimating imports because it produces estimations in the color observable values computed monthly data. Estimates are obtained using the ratio method, but with each company in turn omitty from the sample. These estimates are then averaged to do that the average to do that the key server good sufficient of the contract of the c

Imputing Missing Data

The ratio method of estimation automatically imputes for nonresponse. Data from companies that do no respond are excluded from both the weekly and the monthly totals for the sampled companies.

Response Retes

The response rate as of the day after the filing deadline is about 80 percent for the E1A-18(1, 78 percent for the E1A-18(2, 80 percent for the E1A-18(2, 80 percent for the E1A-18(2, 80 percent for the E1A-18(2, 80 percent for the E1A-18(3, 80 perc

Note 1.4 EIA-170: Tanker and Barge Shipments of Crude O and Petroleum Products Between Districts

Background

The EIA-170 survey collects data for calculation of monthly petroleum supply and disposition figures on HS and PAD District levels

Instrument and Design

This form is designed to collect data on total movements by tanker and barge of crude oil and petrolsum products between PAD Districts or between PAD Districts and the Penama Canal, by shipping State and receiving State.

Universe

The respondent universe of the BIA-170 consists of all known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panams Gand. There are currently about 60 respondents.

Collection Methods

Survey data are collected by mail every month. The filing deadline is the 20th calendar day of the month following the report period. The response rate as of the filing deadline is about 38 percent. Late respondents are contacted by telephone. All responses are processed each month before release of the data for publication.

Note 1.5 ERA-60: Reports of Oil Imports into the United States and Puerto Rico

Background

The "Report of Oil Imports into the United States and Powtra Rice" (ERA-40) survey was designed by the Economic Regulation (ERA) of the Department of Energy to collect date on per tof entry, ownering of the Committee Regulation (ERA) of the Department of Energy to collect date on per tof entry, ownerly of origin, destination, and quantity of imported crude oil and petroleum products, a well assilter content and AF graverly. All licensed importers and importers of record are required to apport. The "Shipments of Refined Products from Puerts Rico to the United States" (P-135-M-O) survey was designed to oblice date on imports to the United States that are not covered by the ERA-40.

Universe

The monthly submission of Form RRA—60 and P-13S—M—0 is required by all licensed importers and importers of record into the United States and Deserto Rico. The respondent universe consisted of approximately 760 firms as of June 30, 1981. The respondent universe for these surveys is updated whenever an import license is crasted to the Office of Oll Imports of the ERA.

Collection Methods

The survey data are collected by mail each month. It is mandatory for each respondent to file the ERA-60/P-133-M-O by the 18th working day of the month following the reporting period. Resumbnissions are received frequently and are processed when received.

Response Rates

In December 1990, the survey had a response rate of \$2 percent by the filling deadline. The authrees was default at that time, Glename this is a quantic survey, the outiveze is constantly chancing, \$1 Standard follow-up of nonrespondents is made to insure that all reports are received, throe data are not imputed follow-up of nonrespondents. Suppose rate is generally \$6.95%; but the the data are not imputed for publications are not generated as grandered procedure. The ERA-80 file is never closed; resultantizations are contactly received and processed.

Note 1.6 Census Import (IM-145) and Export (EM-522 and EM-594) Tabulations

The foreign trade statistics program, conducted by the Bureau of the Census, involves compilation and dissemination of a large body of data relating to the imports and exports of the United States.

Import Statistics

Coverage

The import statistics reflect both government and nongovernment imports of merchandise from farigin countries into the U.S. Customs territory (includes the 50 States, the District of Columbia, and Poerto Roo.), without regard to whether or not a commercial transaction is involved. In general, the statistics record the plysical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise shipped in transit through the United States, when documented with Customs as an intransit movement.
 - Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; shipments between any of these outlying areas; and imports into U.S. possessions from foreign countries.
- 3. U.S. merchandise returned by U.S. Armed Forces for their own use

Source of Import Information The official U.S. import statistic

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withir rawli forms that importers are required by law to file with Customs officials (Customs Forms 7501-7505).

Imported petroleum is reported as "imports for Consumption." Imports for consumption are a combination of entries for immediate consumption and withdrawals from ware closure for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption.

Country and Area of Origin

The country reported in the statistics 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

Coverage

The export statistics reflect both government and negovernment exports of demestic and foreign merchandise from the U.S. Customs territory (neludes the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the execution of the following trees of transactions:

- Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; between any of these outlying areas; and shipments from U.S. Possessions to foreign countries.
- Merchandise shipped in transit through the United States from one foreign country to another, wher documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carrie engaged in foreign trade,

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Shipper's Export Declarations are required to be filed with Catalon Officials, except when qualified exporters have been subforcing to exhibit data in the form of magnetic tape, punched eards, or monthly Shipper's Summary Export Declarations directly to the Bureau of the Census.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper des on known the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Collection Methods

Survey data are collected by mail every month. The filing deadline is the 20th calondar day of the month following the report period. The response rate as of the filling deadline is about 98 percent. Late respondents are centacted by telephone. All responses are processed each month before release of the data for publication.

Note 1.5 ERA-60: Reports of Oil Imports into the United States and Puerto Rico

Background

The "Report of Oil Imports into the United States and Puerto Rico" (RRA-60) survey was designed by the Economic Regulatory Administration (RRA) of the Department of Emergia to collect data super for entry, country of origin, destination, and quantity of imported crudeoil and patroleum products, as well as suffer contented API gravity. All licensed importance and importance for early are products, as well considered for the Regulator of the Regu

Universe

The monthly submission of Form ERA-60 and P-13S-M-O is required by all licensed importers and monthly submission of Form ERA-60 and P-13S-M-O is required by all licensed importers consisted of approximately 785 firms as of June 386, 1981. The respondent universe consisted of approximately 785 firms as of June 386, 1981. The respondent universe for these surveys is updated whenever an investment of the ERA are according to the FRA are also as a first product of the ERA.

Collection Methods

The survey data are collected by mail each month. It is mandatory for each respondent to file the ERA-60/P-133-M-O by the 18th working day of the month following the reporting period. Resubmissions are received frequently and are processed when receives.

Response Rates

In December 1986, the survey had a response rate of 89 percent by the filing deadline. The universe was 65 at that time, Glecause this is a dynamic survey, the universe is constantly changing. Shared following of nonrespondents is made in insure that all reports are received, directed as most imputed for following of nonrespondents is made in insure that all reports are received, directed as not imputed for four former possible. Suppose rate is generally 8-98% by the time the data are not imputed for procedure. The process of the survey

Note 1.6 Census Import (IM-145) and Export (EM-522 and EM-594) Tabulations

The foreign trade statistics program, conducted by the Bureau of the Census, involves compilation and dissemination of a large body of data relating to the imports and exports of the United States.

Import Statistics

Coverage

The importantistice reflect both government and negovernment imports of merchandise from foreign countries into the U.S. Customs territory (includes the 60 States, the District of Columbia, and Poerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics.

- Merchandise shipped in transit through the United States, when documented with Customs as an intransit movement.
 - Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samos, and other U.S. possessions; shipments between any of these outlying areas; and imports into U.S. possessions from foreign countries.
 - 3. U.S. merchandise returned by U.S. Armed Forces for their own use.

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 7801–7805).

Imported petroleum is reported as "Imports for Consumption," imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

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

Export Statistics

Coverage

The expert statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (includes the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the execution of the following trues of transactions:

- Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; between any of these outlying areas; and shipments from U.S. Possessions 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.
- 3. 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 Bureau of the Census primarily from copies of Shipper's Export Declarations. Shipper's Export Declarations are required to be filed with Oustoms officials, except when qualified supporters have been subthered to submit data in the form of magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations directly to the Bureau of the Census.

Country and Area of Destination

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

Note 2 Estimation

The geographic coverage of all estimates is the 50 United States and the District of Columbia, including adjacent areas of the outer continental shelf, excluding the Hawaiian Foreign Trado Zone.

Note 2.1 Supply

The components of petroloum supply are field production, refinery production, imports, stock withdrawal or addition, crude all used directly, and losses.

Field Production is the sum of crude oil (including lease condensate) production, natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. Reports of crude oil production from each of the 31 producing States are not received until several months after the other components of petroleum supply described in Explanatory Note 21 are available for publication. For an explanation of the crude oil estimation procedure used until the State renorts are complete, see Evaluatory Note 21.

Field production of natural gas plant liquida (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-64. "Natural Gas Liquida Operation Report." Negative production will occur when the amount of a product produced during the month is less than its amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, reported monthly on survey Form EIA-64, "Natural Gas Liquido Operations Report." Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Refinery Preduction of LEGs, ethans, and finished petroleum products is reported monthly or acrey Form Elds. 77, Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished sits and of motor and aviating against behading components appears on an thesis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is represented (input) or reliastified to become another product during the same

Refinery production is also reported weekly on survey Form EIA-161, "Refinery Report." Son Explanatory Notes 12 and 13 for survey descriptions and other detail, It should also be noted that refineries do not report production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other indirectrions and alcohol.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, "Report of Oil Imports into the United States and Puerto Rico," and Form P-183-M-O, "Shipments of Refined Products (including unfinished oils) from Puerto Rico to the United States." In addition, the Cansus Bureau Tabulation 1M-145 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in imports of liquefied petroleum gases (LPG), where Census data show a much higher level of imports than Energy Information Administration data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and because LPGs are not licensed products. Therefore, respondents that only import 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. BIA 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 residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. 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-80 reporting system.

Imports are also reported weekly on survey Form EIA-165, "Imports Report." See Explanatory Notes 1.3, 1.5, and 1.6 for survey descriptions and other detail.

Stock Withdrawal () or a dolltion () in adealated by subtracting stocks at the end of the most hom stocks at the degrading of the most, fower: The laging insoles does month as requise to the ending at scoke of the most are requise to the ending at scoke of the most are requised to the ending at scoke of the previous month.) A positive result () would represent a withdrawal from attacks and an increase in protections uppelled infertive toeff demander consumption. A negative result () would represent a building of stocks and reduce petroleum supplied distributed for demantic consumption. A negative result () or consumption. Per army forms used to make stock withdrawal or addition additional scale consumption. The army forms used to make stock withdrawal or addition additional scale and the scale of the

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition. Crude oil supply is the sum of field production, imports and stock withdrawal or addition, less crude used directly and losses. Crude oil disposition is the sum of exports and refinery input.

Unaccounted-for crude oil is actualistic by submerting crude all supplies from crude oil dispatition. An angular versult indicates that referres and experters a spectra due of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reported to have been supplied to refine and an approximation of their problems.) A negative results under linked in the description of their problems. A negative results under linked in the control of the problems of the control of the area of the control of the area of the control of the area of the control of the area of the control of

Crade Oil Used Directly and Lasses is the sum of crade oil loses at refineries, crade oil oil burst oil. A refineries at more cold oil burst on a lasses. Crade oil loses and cassamption at rafferies are resported on Form Bill. 45°, Refinery Report. "Oracle oil burst oil saise and consumption at rafferies are resported on Form Bill. 45°, Refinery Report." Oracle oil burst oil naises divided into two captures of a bright oil produced by the control of the control of the control of the control of the control oil burst oil naises and chief did not be control of the control oil burst oil naises and chief did not be control oil and control oil and control oil and control oil and control oil and control oil and control oil and control oil and control oil and chief the control oil oil naise resists to be the control oil angular) and as a positive analyty to residual and distillate for oil oil naise resists to be the control.

Note 2.2: Domestic Crude Oil Production

Data for the Grude Oil Production System (COPS) are reported to the Department of Energy by each of the Individual Share conservation agencies, which collect ortegel orgation studies for the properties in the U.S. Geological Survey reports the volume of crude oil that is produced offshore in addition, the U.S. Geological Survey reports the volume of crude oil that is produced offshore in received monthly. After each calendar year, these monthly numbers are updated using the annual proport from the State conservation agencies and the U.S. Geological Survey. The six States that do not report remotify values are belien. New Tork, Oile, Foundwinia, West Tyrinia, and Tyrinia

There is a time lag of approximately 3 to 4 months between the mid of the reporting month and the time when the actual values are available for this publication, to order to provide more timely considered production astimates, the Department of Energy has established series of statistical models that forecast the volume of crude oil production based on the historical production patterns. The models are Auto Ragressive Integrated Moving Average (ARIMA) to analyse series of monthly crude oil production values collected over severely.

In order to provide detailed cross of large states in formations both the PAD District levels and for the major producing State, the total United States cross oil productions without my state of the state of the produced evaluate was repeated into nine distinct prospings. The nine different time series are the monthly reported cross oil production of the states in PAD District of an extent in PAD District (9 of Passas (6) Dissas (8) Passas (8) Pas

A separate ARIMA model is identified for each time series. New model parameters are estimated monthly for each of these nine updated time series. Then, these ARIMA models are used to forceast crude oil production volumes for the month of interest. These values are them aggregated into PAD District and national totals. The forceasts made during 1981 had an average error of less than 0.5 excreen commande to the monthly requed by productive volumes eventually reported by the fastes.

Note 2.3 Disposition

The components of petroleum disposition are refinery input, exports, and products supplied for domestic consumption.

Refinery. Inputs of crude oll, NGPL and other liquids are reported monthly on survey Form EIR-83. "Refiners Report." Polithical inputs of unfinished oils, and motor and valido gasables blending companents, equal refinery input minus refinery output. Refinery inputs of finished pervious proceducts are reported on an exhaust under refinery production. Refinery inputs and exreported weakly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 1.2 and 1.3 for survey describing and other details.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM622 and EM694. Exports include crude oil shipments to Puerto Rico, the Virgin Islanda, and the Hawaiian Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-87.

Product supplied for each product is calculated by summing field production plus refinary production, plus imports, plus stock withdrawad or minus such addition, plus crude cill used directly and losses (blus net receipts when calculated on a PAD District basis), minus refinary point, minus appears. This fermula sensore that total dispution equals total supply. Products of the product of the p

Note 2.4 Stocks

Frimary Jackels of erude all are the sum of emility at lock reported monthly to Brown ELA-87. "Buffurer Borner", and Form BLA-68. "Twick like Stock Report." Croft and like of line Strategies Petroleum Borner", and Form BLA-68. "Twick like Stock Report." Croft and like like Brown ELA-68. "Buffurer and like the Indiance of the Indiance Stock Report. "Primary Stocks of particular products are summed from Lake Report." From BLA-68. "Buffurer Borner", Form BLA-68. "Buffurer Buffurer", Form BLA-68. "Buffurer Buffurer Buff

Note 2.5 Average Stock Levels

The grants displaying monthly stock-levels of state-unions products, crude oil, motor gasoline, distillate field, radicular field ill, furtified perioden gains and others, and other products provide the cure with recent data as well as a normany of data from any crude care of year period from January through the critical as well as a normany of data from the contract of the contr

These curves are updated every 6 months effective January 1 or July 1 by basing the "average ranges" on a more recent time period. At that time, each 3-year data series will be adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly sessonal factors were estimated by means of a sessonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors were assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the sgries is despasanalized by subtracting the seasonal factor for the appropriate month from the reported stock levels). The intent of deseasonalization is to remove only sessonal variation from the data. Thus, a deseasonalized series deseasonalization is to remove only seasonal variation and in the same translation of the same translation and irregularities as the original data. For crude oil stocks, the derived seasonal factors were very small relative to crude oil stock levels. Therefore, the sessonal factors for erude oil stack levels were set to zero. The seasonal factors for total pstroleum (erude and products) distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethans, and other products were derived using monthly data from 1974-1980. For motor gasoling, the seasonal factors were based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor esseling stocks. Monthly stock levels stayed at the same high level for the certire year. In addition the sessonal patterns in 1973 and 1974 appeared to be different from those in recent years. It was therefore assumed that the sessonal patterns in 1978, 1974, and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal natterns for motor resolling stocks. Recause of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for total petroleum (crude and products), crude oil. distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethane, and other products is stronger than is the evidence for the illustrated seasonal patterns for motor exerting

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3 year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 86-month selderniment her midpoint of the deaseasonalized ware band. The standard error of the deseasonalized 88 months is calculated adjusting for extreme data points. The width of the "average range" 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 2.6 Movements

Movements of crude oil between PAD Districts are reported on Form EIA-170. "Tanker and Barge Report." Personner product movements are reported on Forms EIA-170 and EIA-99. "Pipaline Report." Personner product movements are reported on Forms EIA-170 and EIA-99. "Pipaline Products Rappert." Net receipts are calculated by summing total movements into and total movements from each PAD District by pipaline, tankers, and barges, and subtracting for the difference. Movements of crude oil by pipaline are not reported. For survey descriptions and other datall, see Explanatory Notes 12 and 14.

Note 2.7 Preliminary Monthly Statistics

Data from the Weekly Petroleum Reporting System (Forms EIA-161, 162, 168, 164 and 166) are used to estimate the most recent monthly values for the historical statistics. Since some of the weekly reporting periode overlap 2 adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To calculate monthly estimates of crude oil and petroleum product imports, crude oil input to refiner is, 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 sammed.

Bode-mouth stock levels of crude oil and the major protects (motor gasoline, distillate feel and recitable feel) are calculated in a similar manner, but use only the two workey reporting periods that cover the end-of-work stocks before and after the end of the month. The end-of-month stock level is exclusively free acclaiment by first end-of-month stock level is exclusively free acclaiment of the end-of-month stock level is exclusively for exclusively first end-of-month stock level in the end-of-month stock level in the end-of-month stock level in the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 2.2.

Note 3 Accuracy of Petroleum Supply Data

Early in 1981, the Energy Information Administration completed an assessment of the accuracy of principal petroleum supply data series. This assessment concentrated on two methods of analysis:

 Comparisons between EIA's final annual estimates published in the Petroleum Statement Annual (PSA) and annual estimates from independent sources.

Comparisons between EIA's final monthly estimates published in the PSA and EIA's earlier estimates
published in the Monthly Petroleum Statistics Report and the Petroleum Statement, Monthly (predecessor
of the Monthly Petroleum Statement).

Selected excerpts from these comparisons are presented below.

Comparisons of Annual Estimates

All of the systems that provide data for the Phriosam Supply Monthly, except for the wealty systems, typ collected fast from the entire universe of their potential respondents. They do not sensingly and have no sampling errors. Inscruracies in the data still occur because of problems such as incompleted listed or propedings, recross in the exposess, and occupated errors in the design of the data systems. Such inscruracies are hard to identify and even harder to quentify. Some undestanding of the several data, as shown in the following tables. Once generated the such as designed to the control of the several data, as shown in the following tables. Once agreements among anoust estimates from several independent sources support the conclusion that the estimates are accurate, and accuracy in the anoual estimates.

Crude Oil Production

 $\label{lem:comparisons} among independent estimates of annual crude oil and lease condensate production lead to the conclusion that the PSA estimates are probably accurate to within 1 percent.$

Crude Oll Imports

Comparisons among independent estimates of annual crude oil imports lead to the conclusion that the PSA estimates are probably accurate to within 1 percent. This conclusion is supported by a study of BIA and Customa/Census import data performed for BIA:

Motor Gasoline Supplied

Comparisons among independent estimates of the annual volume of motor guasiline supplied for domestic use show that differences in the estimates grew between 1977 and 1978. By 1979, by 1978, blue for domestic use show that differences in the estimates of procession appears estimate of production had estimate of sales by refiners and the Environmental Protection Apency's estimate of production had grown about 6–7 precent larger than the comparable [58]. Landbarg, and American Petroleum Institute (API) settimates. Research conducted by EIA in 1979 and 1980'e confirmed that the lower

An Accounces of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/BIA-0292, June 1981.

**Maxima Corporation, Petroleum Imports Reporting Systems, Preliminary Draft, (Silver Spring, Maryland:

February 1899). Prepared for the Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Weshington, D.C. Office of Energy Information Administration, U.S. Department of Energy, Ass. Published Section Section Supply Sections (Weshington, D.C.: April 1894).

estimates were inaccurate, and identified changes in the petroleum industry that had an adverse effect on the PSA estimate. During 1980, E1A developed and tested improved procedures for collecting petroleum supply data, and implemented them in January 1981, 1980 Explanatory, Note 4.)

Distillate Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of distillate fuel oil supplied for domestic use lead to the conclusion that the PSA estimates are probably accurate to within 1 to 2 percent.

Residual Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of residual field oil supplied for domestic use seem to show sizable and consistent differences between the IBA estimates of sale for prefigers and the PSA and API estimates. When imports of residual field oil by non-refiners are added to the refiner sales, however, the differences between refiner sales and the PSA estimates are near-root to within 1 percent. The comparisons therefore lead to the conclusion that the PSA estimates are probably accurate to within 1 to 2 percent.

Comparison of Estimates of the Volume of Crude Oil and Lease Condensate Production, 1977-1979

	Produc	ated Volution in Mi Gallon E	Illions of		tive Esti Percent PSA Est	
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement Annual ^b	3,121	3,178	3,009	///	///	///
Comparative Estimates						
American Petroleum Institute Estimate from API Monthly Statistical Reports	3,130	3,214	3,021	100.3%	101.1%	100.4%
Census Estimate from the Annual Survey of Oll and Gas ^d	_	3,148	3,018	~	99.1%	100.2%
Oil and Gas Journal Estimates of Total Production derived from Monthly Data	8,168	3,165	3,005	101.5%	99.6%	99.9%
EIA Estimate from Annual Survey of Oil and Gas Reserves (EIA-23)	8,102	8,144	8,001	99.4%	98.9%	99.7%
/// = Not applicable						

^{- =} Not available

[&]quot;Volumes are rounded to the nearest million barrels.

^{*}From Table 6 in EIA's Petroleum Statement Annual, 1977, 1978, 1979.

[&]quot;From issues of the American Petroleum Institute's Monthly Statistical Report. The annual values were obtained by summing the monthly values for each of the twelve-month periods.

⁴From Table 1, p.2 of the Bureau of Consus' Annual Survey of Oil and Gos, 1978.

From issues of the Oil and Gaz-Joernal, Monthly estimates are in thousands of barrels per day. They are converted to millions of barrels by dividing by 1,000 and multiplying by the number of days in the reporting period.

"From Elias Vis. Crests Oil and Natural Gas Servers 1979 Annual Report (Table 1), 233, 1978 Annual Report

The Company of the Com

⁽Table 16, p. 20), and 1977 Answel Report (Table 22, p.26).

Geographic coverage: the 80 United States and District of Columbia with adjacent areas of the Outer Continental shelf.

SOURCE: An Assessment of the Assuracy of Principal Bata Series of the Energy Information Administration, DOE/EIA-0292.

	1979	1978	1977	1979	1978	1977
EIA Estimate of Receipts at Ports of Entry (ERA-60) from Petroleum Statement, Annual ^b	2,380	2,320	2,414	///	///	///
Comparative Estimates						
American Petroleum Institute Estimate of Receipts as Reported by Refiners	2,346	2,323	2,860	98.6%	100.1%	97.8%
Customs/Census Estimate of Receipts at Ports of Entry (Customs Forms 7501 and 7502) ^d	2,415	2,338	2,431	101.5%	100.8%	100.7%
EIA Estimate of Inputs of Foreign Crude at Refineries (ETA-87)°	2,364	2,334	2,431	99.3%	100.6%	100.7%

Volume of Millions of

42-ILS Gallon Barrels*

Comparative Estimates as

a Percent of the Primary Estimate

DOE/EIA-0292.

^{/// =} Not applicable

*Volumes are rounded to the negrest million barrels.

^{&#}x27;From Table 1 in SiA's Purchasen Statement Annual 1997, 1978, 1978. This table also includes Imports for the Strangist Petroleum Stateres (SFR) which were 7.2 million in 1977, 68 Petroleum Stateres (SFR) which were 7.2 million in 1970, 88 Petroleum Stateres (SFR) which were 1.2 million in 1970, 88 Petroleum Stateres (SFR) petroleum Stateres (SF

Data on imports to Puerto Rico which are included in the source for these estimates have been excluded from these estimates in keeping with the geographic coverage of the table. Data are from computer printents of the Bureau of Census Report III-245-X dated April 3, 1990 (1977 and 1978 data) and December 11, 1990 (1979 11, 1990 (1979 11).

Census Report IM-245-X dated April 3, 1980 (1977 and 1978 data) and December 19, 1980 (1979 data).

Patinniae equal refinery apacted foreign crude plant minual stack increases (decreases) of foreign around for the data for the computation are published in ElA's Petroleum Statement, Annuala. The stock changes (all increases) see derived from data on actocks of crudeal in steffencies subtle therminals, and politices are reported on Form ElA-80, plus

the increase in the SPR. This estimate excludes crude oil imported and not used as refinery input.

Geographic coverage: the 60 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration.

Comparison of Estimates of the Volume of Motor Gasoline Supplied for Domestic Use. 1977-1979

		Gallon I	3arrela*	Percent a	of the PSA	Estimate
	1979	1978	1977	1979	1978	1877
EIA Estimate from Petroleum Statement, Annual ^b	2,573	2,711	2,625	111	111	111
Comparative Estimates						
EIA Estimate of Sales by Refiners (P-306)*	2,708	2,792	2,671	105.2%	103.0%	101.8%
Environmental Protection Agency Estimate derived from Production Data ⁴	2,766	2,851	2,706	107.5%	105.2%	103.1%
Lundberg Surveys, Inc. Estimate of U.S. Motor Gasoline Sales*	2,631	2,746	2,656	102.3%	101.3%	101.2%
American Petroleum Institute Estimate of Deliveries'	2,579	2,697	2,612	100.2%	99.5%	99.5%

Volume in Millions of

Volume Supplied as a

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration. DOE/BIA-0292 Comparison of Estimates of the Volume of Distillate Fuel Oil (Including Kerosene) Supplied for Domostic Use, 1977-1979

	Volun 42-U.S.	ne in Milli Gallon B	ons of arrels*	Volume Supplied as a Percent of the PSA Estima		
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement Annual	1,269	1,307	1,275	///	///	///
Comparative Estimates						
EIA Estimate of Sales by Refiners (P-306) ^c	1,282	1,275	1,242	101.0%	97.6%	97.4%
American Petroleum Institute Estimate of Deliveries ⁶	1,291	1,900	1,277	101.7%	99.5%	100.2%

/// = Not applicable

^{/// =} Not applicable "Volumes are rounded to the nearest million 42-U.S. gallen berrels.

^bDarrived from Table 2 in RIA's Petrolesia Statement Annual, 1677, 1978, 1979.

[&]quot;Devised from Table 1 of El à a December inne of Privaleurs Marint Shows Report on Solm of Refined Privaleurs Products 1977 1978 1979 ⁴The estimate above is derived by substituting EIA Domestic Production values with values of domestic production tabulated from the Environmental Protection Agency Ba, Form 3259-2, "Locd Additive Report for Reflection." The EFA production exclusives are 2.64-bit million barrels in 1972, 2.07-bit. 1973, and 2.64-bit 1979 as compared from a numerical in 1972, 2.07-bit. 1973, and 2.64-bit. 1979 as compared from a numerical results.

sheet provided by Mr. Bob Summerhaves of EPA. "From the mid-June issues of the "National Petroleum Nova." 1979 and 1980

¹A PI publishes mostily estimates in thousands of betrels per month of the volume of motor gaseline delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimate are reviced using SEA data. The values shown in the table are equal to the summed the initial published API monthly estimated on the same of the initial published API monthly estimated and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the

motor gasoline multiplied by the number of days per month. Geographic coverage: the 50 United States and the District of Columbia.

^{*}Volumes are restuded to the nearest million 42-U.S. zailon barrels.

^bDerived from Table 2 in ELA's "Petroleum Statement Annual", 1977, 1978, 1979.

^{*}Derived from Table 1 of EIA's December issue of Petroleum Market Shares, Report on Sales of Refined Petroleum Products,

dAPI publishes monthly estimates in thousands of barrels per month of the volume of distillate and kerosene delivered from Ar I passioned monthly estimates in the unable of marks per months the relations of collating and increase addressed for primary aborage. The initial published monthly estimate a derived from AFI sources, but in later AFI published as a desirable of the primary aborage. The initial published affined may be revised using EA feat. The values driven in the table are equal to the source of the initial published AFI estimates are revised using EA feat. The values driven in the table are equal to the source of the initial published AFI estimates are revised using EA feat. The values driven in the table are equal to the source of the initial published AFI estimates are revised using EA feat. The values driven in the table are equal to the source of the so monthly estimates of distillate and kerosene multiplied by the number of days per month.

Geographic coverage: the 50 United States and the District of Columbia. SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0282.

Comparison of Estimates of the Volume of Residual Fuel Oil Supplied for Domestic Use,

	Volum 42-U.S	ne in Milli Gallon H	ions of arrels"	Volum Percent o	ne Supplie f the PSA	d as a Estimates
	1979	1978	1977	1979	1978	1977
EIA Estimate from Pstroleum Stotement, Annual ⁵	1,024	1,095	1,109	///	///	///
Comparative Estimates						
E1A Estimate of Sales by Refiners (P-306) ^c	796	832	847	80.8%	79.6%	80.1%
American Petroleum Institute Estimate of Deliveries ^d	1,044	1,101	1,114	102.0%	100.5%	100.4%

^{/// =} Not Applicable

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE:RIA-0592

Comparisons of Monthly Estimates Over Time

Inaccurates in petroleum data resulting from Incomplate or delayed reports from respondents and from data processing over an exacular plinning from the first [24] activates. So the Inconcernole can be considered to the contract of the contract of the contract of the contract of the contract of the contract of the first processors. The following tables compare the initial monthly estimates published in the Monthly selfmants problemed scaled proper and the Percenter Softeness. However, which will be the Monthly selfmants published in the PSA. During 1971—1978, the Monthly Partoleum Statistics Report was published show published in the PSA. During 1971—1978, the Monthly Partoleum Statistics Report was published show 102–102 flow start for each of the reporting month. The activate book has, both in terms of base and in terms of tendariar deviation, the later estimates are consistently more accurate than the activate continues. In page 167, the carrier of the contract of more valuable to user of energy continues. In page 167, the carrier of energy the contract of the contract of energy than the contract of the contract of energy than the contract of energy than the contract of the contract of energy than the contract of energy than the contract of the contract of energy than the contract of the con

For purpose of comparison, the Petroleum Supply Monthly is achievable to be published on about the name time lag as the Monthly Petroleum Scalaries Report, Guation should be exercised, however, in drawing conclusions from this similarity. The Petroleum Supply Monthly uses improved data processing procedures developed and monoscality implemented during 1943. In addition, since 1979, BIA has greatly improved the accuracy of the 50 day errors and production estimates and is making progress in improving the accuracy of the 50 day import cellurates.

[&]quot;Volumes are rounded to the nearest million 42-U.S. stallon barrels.

^{*}Derived From Table 2 in EIA's Petrolous Statement Annual, 1977, 1978, 1979. Refinery fuel use, subtracted from the figures in the source referenced below, has been reinstated in these estimates.

^{**}Puriod from Table 1 of \$1.4\times December issue of Petroleus Market Shares, Report on Sales of Refined Petroleus Perduks, 1977, 1978, 1978.

**AP publishes monthly estimates in thousands of barrels per most to the volume of residual find oil delivered from primary actuary. This little sold third work status also also stated from primary actuary. This little sold the sold the state of the state of the sold the sold the sold the state of the sold t

revised using ELA data. The values above in the table are equal to the sums of the initial published API monthly estimates of residual for all multiplied by the number of days per month. Geographic Coverage: the 50 United States and the District of Columbia.

Initial Monthly Estimates of Production, Stocks, and Imports of Crude Oil As A Percent of EIA's Final Published Estimates * January 1977, Possember 1979

		g Month	End o	Stocks At f Month		ports z Month
	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation
EIA's Estimates from the Monthly Petroleum Statistics Report ⁵	# 98.7%	1.6%	# 98.3%	1.4%	# 95.4%	2.4%
EIA's Estimates from the Petroleum Statement, Monthly	# 99.6%	0.6%	100.0%	0.1%	# 98.4%	1.8%

Initial Monthly Estimates of Products Supplied for Domestic Use as A Percent of EIA's Final Published Estimates * January 1977 - December 1979

	Motor	Gasoline	Distillat	e Fuei Oli	Residua	i Fuel Oli
	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation
EIA's Estimates from the Monthly Petroleum Statistics Report ^b	99.9%	1.8%	99.9%	2.3%	H 97.9%	2.7%
EIA's Estimates from the Petroleum Statement, Monthly?	100.0%	0.3%	99.7%	0.5%	99.4%	1.2%

Initial Monthly Estimates of End-of-Month Primary Stocks As a Percent of EIA's Final Published Estimates * January 1977 - December 1979

	Motor	Gasoline	Distillat	e Fuel Oli	Residua	l Fuel Oil
EIA's Estimates from the	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation
Monthly Petroleum Statistics Report	99.7%	0.8%	99.7%	1.1%	100.1%	0.7%
EIA's Estimates from the Petroleum Statement, Monthly	99.9%	0.2%	100.0%	0.1%	100.1%	0.5%

[#] Represents a difference from 100% found to be statistically significant at the 95% level of confidence (n = 36).

by the number of percents.

[&]quot;Pinal measts useful seatimates are from the "Petroleum Statement, Annual" for 1977, 1978 and 1978. The mean percent is calculated as follows: each profilminary estimate is first expressed as a percent of 1974 binds of 1978. The mean percent is calculated as follows: each profilminary estimate is first expressed as a percent of 1974 binds of 1974 bin

⁵Based on 36 initial estimates appearing in issues dated January 1977 - December 1978.

^{*}Based on 36 initial estimates appearing in issues dated January 1977 - December 1978.

SOURCE: An Assessment of the Assessment of the Assessment of the Assessment of Principal Data Series of the Energy Information Administration DOR/EIA-0252.

Note 4 Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with backed developed by the Darray Information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adequately reflected in ELA's reporting systems.

ElA reporting forms definitions, and procedures were modified beginning in January 1981 to describe industry operation 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 data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

Motor Gasoline

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 porcent lower than the Peoleral Highway Administration (PHEM) againtle-sale data series, which is derived from State star receipts. This difference increased to about 4 percent in 1970 and 6 percent in 1980. There are two primary causes for this growing difference. Piers, enfinery operations, percelularly the flower of unfinished oils and the redesignation of come finished products, were not being accountably described on Maria Rai survey forms. Second, a large amount of gasoline was being produced way from reflerated as RAI survey forms. Second, a large amount of gasoline was being produced way from reflerated as the RAI survey forms. Second, a large amount of gasoline was producting according to the second of the second second of the second second second of the second second second of the second second of the second secon

Quantitative estimates of the magnitude of the difference—in ELA's gandline product supplied data; in 1979 and 1989 have been maded by the ELA mode and the American Februlen multitude (AFI). The following table provides 1979 and 1880 data as published in the Februlena Statement, Asson, i.e. well as ELA and AFI estimates of "read" motor gandline product supplied ELA recast estimates were based upon the application of the control of the action of the Control of the Con

Offficed Spargy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Transition Data used to Excatelat and Monitor State Energousy Conservation Targets (Washington, D.C.; December, 1981).

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

		16	179			19	80	
	EIA Reported	API Recast	EIA Recast	FHWA1	EIA Reported	API Reeast	El A Recast	FHWA
Jan	6,830	7,280	7,084- 7,246	6,984	6,828	6,789	6,630- 6,791	6,672
Feb	7,264	7,496	7,889-	7,688	6,596	6,983	6,831- 7,003	6,830
Mar	7,229	7,414	7,301- 7,463	7,816	6,406	6,758	6,607- 6,768	6,718
Apr	7,056	7,800	7,187- 7,858	7,375	6,800	7,014	6,886- 7,052	6,981
May	7,213	7,429	7,313- 7,476	7,428	6,729	6,964	6,823-	7,044
Jun	7,191	7,483	7,850- 7,616	7,441	6,657	6,966	6,824-	7.049
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,978	6,960	7,132
Aug	7,830	7,546	7,426-	7,619	6,648	6,841	6,828	7,090
Sep	6,881	7,122	7,016- 7,282	7,232	6,510	6,692	6,962	6,685
Nov	6,791	7,068	6.966- 7,122	7,142	6,284	6,507	6,516	6,961
Dec	6,780	7,106	6,966- 7,127	7,064	6,632	6,948	6,986	6,993
Average	7,034	7,802	7,183- 7,847	7,809	6,679	6,882	6,806- 6,889	6,925

"FHWA gasoline statistics published in their 1979 Table M F-380, 68-66-89, contain oristion gastline as well as motor gasoline. Only motor gasoline data are included in published 1800 data. Consequently, the 1979 data shows were reduced by subtracting system gastleng product supplied quantities a poblished by SLA in the 1979 Potrelesses Statement Answell. The 1800 FHWA data published in their 1980 Table MF-150A, August 1861, did not require this adjustment.

Distillate and Residual Fuel Oil

Distillates and residual field all refinery production statistics through 1990 were adjusted to account for an inhalance between unfinished all supply and disposition. The reported quantities of refinery inspired of cartifiathed alls typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillates and residuals the all produced by a refinery in shippoid to another refinery, where it is treated as antilinished oil. This oil is then reprocessed rather than osed craded as addistillate or residual that oil.

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.

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

Residual Fuel Oll

Distillate Fuel Oli

Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied
-								
Jan.	3,043	3,108	66	4,646	1,912	1,946	84	3,594
Feb.	2,888	2,945	57	4,869	1,792	1,822	80	3,625
Mar.	2,019	3,026	7	3,671	1,719	1,723	4	3,248
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524
May	3,066	8,098	27	8,025	1,586	1,600	14	2,517
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601
Jul.	2,305	3,344	38	2,601	1,575	1,594	20	2,471
Aug.	3,821	3,359	38	2,799	1,584	1,603	20	2,570
Sep.	2,354	8,806	-48	2,599	1,627	1,602	-26	2,584
Oct.	3,251	3,217	-34	3,085	1,629	1,612	-17	2,628
Nov.	3,239	3,200	-39	3,208	1,786	1,716	-20	2,795
Dec.	8,221	3,238	17	8,725	1,894	1,903	9	3,022
Average	3,152	3,169	16	3,327	1,687	1,696	8	2,834
1980								
		Distillate	Fuel Oil			Reeldual	Fuel Oll	
Month	Adj. Ref. Prod.	Distillate Unadj. Ref. Prod.	Fuel Oll Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Reeldual Unadj. Ref. Prod.	Puel Oll Diff.	Unadj. Preduct Supplied
	Ref. Prod.	Unadj. Ref. Prod.	Diff.	Product Supplied	Ref. Prod.	Unadj. Ref. Prod.	DIff.	Product Supplied
Jan.	Ref. Prod. 3,013	Unadj. Ref. Prod.	Diff.	Product Supplied 3,794	Ref. Prod.	Unadj. Ref. Prod.	Diff.	Product Supplied 3,108
Jan. Feb.	Ref. Prod. 3,013 2,766	Unadj. Ref. Prod. 3,098 2,868	Diff. 80 122	Product Supplied 3,794 3,884	Ref. Prod. 1,771 1,773	Unadj. Ref. Prod. 1,812 1,836	Diff. 41 68	Product Supplied 3,108 3,168
Jan. Feb. Mar.	Ref. Prod. 3,013 2,766 2,657	Unadj. Ref. Prod. 3,093 2,888 2,890	Diff. 80 122 133	Product Supplied 3,794 3,884 3,312	Ref. Prod. 1,771 1,778 1,584	Unadj. Ref. Prod. 1,812 1,836 1,652	Diff. 41 63 68	9,108 3,108 3,168 2,726
Jan. Feb. Mer. Apr.	Ref. Prod. 3,013 2,766 2,557 2,460	Unadj. Ref. Prod. 3,093 2,888 2,890 2,654	Diff. 80 122 133 94	Product Supplied 3,794 3,884 3,312 2,729	Ref. Prod. 1,771 1,773 1,584 1,595	Unadj. Ref. Prod. 1,812 1,886 1,652 1,643	Diff. 41 63 68 48	Product Supplied 3,108 3,168 2,726 2,492
Jan. Feb. Mer. Apr. May	Ref. Prod. 3,013 2,766 2,657 2,460 2,474	Unadj. Ref. Prod. 3,093 2,888 2,890 2,654 2,610	Diff. 80 122 133 94 136	Product Supplied 3,794 3,884 3,312 2,729 2,538	Ref. Prod. 1,771 1,778 1,584 1,595 1,599	Unadj. Ref. Prod. 1,812 1,886 1,652 1,643 1,579	Diff. 41 63 68 48 70	Product Supplied 3,108 3,168 2,726 2,492 2,305
Jan. Feb. Mer. Apr. May Jun.	Ref. Pred. 3,013 2,766 2,657 2,460 2,474 2,646	Unadj. Ref. Prod. 3,092 2,888 2,690 2,654 2,610 2,721	Diff. 80 122 133 94 136 75	Product Supplied 3,794 3,834 3,312 2,729 2,538 2,392	Ref. Prod. 1,771 1,778 1,584 1,595 1,509 1,575	Unadj. Ref. Prod. 1,812 1,886 1,662 1,643 1,579 1,613	Diff. 41 63 68 48 70 88	Product Supplied 3,108 3,168 2,726 2,492 2,305 2,359
Jan. Feb. Mer. Apr. May Jun. Jul.	Ref. Prod. 3,013 2,766 2,657 2,460 2,474 2,646 2,689	Unadj. Ref. Prod. 3,098 2,888 2,690 2,554 2,610 2,721 2,783	Diff. 80 122 133 94 136 75 94	Product Supplied 3,794 3,834 3,312 2,729 2,538 2,392 2,343	Ref. Prod. 1,771 1,773 1,584 1,595 1,509 1,575 1,480	Unadj. Ref. Prod. 1,812 1,886 1,662 1,643 1,579 1,613 1,528	Diff. 41 63 68 48 70 88 48	Product Supplied 3,108 3,168 2,726 2,492 2,305 2,359 2,339
Jan. Feb. Mer. Apr. May Jun. Jul. Aug.	Ref. Prod. 3,013 2,766 2,557 2,460 2,474 2,646 2,689 2,461	Unadj. Ref. Prod. 3,098 2,888 2,690 2,654 2,610 2,721 2,783 2,682	Diff. 80 122 133 94 136 75 94 121	Product Supplied 3,794 3,834 3,312 2,729 2,538 2,392 2,343 2,258	Ref. Prod. 1,771 1,773 1,584 1,595 1,509 1,575 1,480 1,444	Unadj. Ref. Prod. 1,812 1,836 1,652 1,643 1,579 1,613 1,528 1,506	Diff. 41 63 68 48 70 38 48 62	Product Supplied 3,108 3,168 2,726 2,492 2,305 2,359 2,399 2,348
Jan. Feb. Mer. Apr. May Jun. Jul. Aug. Sep.	Ref. Prod. 3,013 2,766 2,557 2,460 2,474 2,646 2,689 2,461 2,686	Unadj. Ref. Prod. 3,098 2,888 2,690 2,654 2,610 2,721 2,783 2,682 2,726	Diff. 80 122 133 94 136 75 94 121 40	Product Supplied 3,794 3,834 3,312 2,729 2,538 2,392 2,392 2,258 2,627	Ref. Prod. 1,771 1,773 1,584 1,595 1,509 1,575 1,480 1,444 1,495	Unadj. Ref. Prod. 1,812 1,886 1,662 1,643 1,679 1,613 1,528 1,506 1,516	Diff. 41 63 68 48 70 38 48 62 21	3,108 3,168 2,726 2,492 2,305 2,359 2,348 2,380
Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct.	Ref. Prod. 3,013 2,786 2,657 2,460 2,474 2,646 2,689 2,461 2,686 2,689	Unadj. Ref. Prod. 3,093 2,888 2,690 2,654 2,610 2,721 2,783 2,682 2,726 2,650	Diff. 80 122 133 94 136 75 94 121 40 61	Product Supplied 3,794 3,834 3,312 2,729 2,588 2,392 2,343 2,258 2,627 2,981	Ref. Prod. 1,771 1,773 1,584 1,595 1,509 1,575 1,480 1,444 1,495 1,512	Unadj. Ref. Prod. 1,812 1,836 1,652 1,643 1,579 1,613 1,528 1,506 1,516 1,543	Diff. 41 63 68 48 70 38 48 62 21 31	9 Preduct Supplied 3,108 3,168 2,726 2,492 2,305 2,359 2,399 2,348 2,380 2,258
Jan. Feb. Mer. Apr. May Jun. Jul. Aug. Sep.	Ref. Prod. 3,013 2,766 2,557 2,460 2,474 2,646 2,689 2,461 2,686	Unadj. Ref. Prod. 3,098 2,888 2,690 2,654 2,610 2,721 2,783 2,682 2,726	Diff. 80 122 133 94 136 75 94 121 40	Product Supplied 3,794 3,834 3,312 2,729 2,538 2,392 2,392 2,258 2,627	Ref. Prod. 1,771 1,773 1,584 1,595 1,509 1,575 1,480 1,444 1,495	Unadj. Ref. Prod. 1,812 1,886 1,662 1,643 1,679 1,613 1,528 1,506 1,516	Diff. 41 63 68 48 70 38 48 62 21	Product Supplied 3,108 3,168 2,726 2,492 2,305 2,359 2,359 2,348 2,380

Total Petroleum Products

The imbalance between the supply and disposition of unfinished oils is now reported as part of the receivability product line 99) into \$1.0. Februain Balance (Pallo) [Inhalance between the supply and disposition of gasoline binding components comprise the remainder of the reclassified in Table 1. These imbalances are superied as angasity product supplied in the Other Lugdiar section of the table of Supply and Disposition Statistics (Table 20. Since these changes only involve redistribution of the table of the Compression

1979

Note 5 Notes on Tables

- 5.1 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
 Supplied, Total Imports, Crude Oil Imports, Total Experts, and Crude Oil Experts appear as labeled in Table 4. Total Production and Grude Oil Production appear under Field Production in Table 4.
- Natural Gas Plant Production is the sum of Natural Gas Plant Liquids and Finished Patroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Petrolsum Products Exports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petrolsum Products Exports in Table 4.
 - Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.
- 5.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, excent where noted
- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SFR and Other Primary Stocks Withdrawal (4) or Addition (-), Unaccounted For Crude (0), Refiner Inputs, and Exports aspear as labeled in Table 1.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR)
 appear in thousands of barrels in Table 1.
- · Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
- · Total Imports appear in Table 4.
- 5.3 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 tent.
- · Ending Stocks appear in thousands of barrels in Table 2.
- 5.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appea 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 Witherawal (+) or Addition (-), Crude Used Directly, Exports, and Product Supplied appear as labeled in Table 4.
- . Ending Stocks appear in thousands of barrels in Table 2.
- 5.5 Liqueffed Petroleum Gases and Ethane statistics represent the aggregation of statistics on ethane, propane, butane, butane propane 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, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- · Ending stocks appear in thousands of barrels in Table 2.
- 5.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and Iffinished petroleum products except finished motor gasoline, distillate the oil al, and residual fuel oil. The statistics on the referenced line are aggregated 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.
- \bullet Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- · Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 5.7 Table 1 U.S. Patroloum Relence

- Lines (1) through (3) of Table 1: Crude oil (including lease condensate) production for "Alaska,"
 "Lower 48 States," and "Tetal U.S." are calculated by calling the conservation agency in Alaska, for
 Alaskan crude oil production during the menth, estimating crude oil production in the United States
 (see Exclusions Mode 22), and taking the difference to caval production in the lower 48 states.
- Line (5) of Table 1: SPR imports are reported on Survey Form ERA-60.
- Line (12) of Table 1: "Total Other Sources" squals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil plus crude used as fuel and losses in Table 2.
- Line (14) of Table 1: Natural gas plant liquids (NGPL) "Production" equals field production of natural
 gas plant liquids (NGPL) plus field production of finished petroleum products in Table 2.
- Line (15) of Table 1: NGPL "Imports" equals the sum of the imports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.
- Lins (18) of Table 1: 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) of Table 1 equals the sum of lines (14), (15), and (16) of Table 1.
- Lins (18) of Table 1: unfinished oils and gasoline blending components "Stock Withdrawal (+) or Addition (-)" equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished dis, motor gasoline blending components, and evisition gasoline blending components.
- Line (20) of Table 1: "Other Hydrocarbons and Alcohol New Supply" equals the field production of same in Table 2.
- Line (21) on Table 1: "Refinery Processing Gain" is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (22) on Table 1: "Crude Used Directly" equals the sum of crude oil used directly as distillate and residual fuel oils in Table 2.
- . Line (23) of Table 1: "Total Other Liquids" equals the sum of lines (18) through (22) of Table 1.
- Lins (24) of Table 1: "Total Production of Products" equals crode oil input to refineries plus fidel production of NOPL and finished petroleum products plus imports of natural gasoline 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, aviation gazdine blending components, and motor gazdine blending components; plus imports of unfinished oils, aviation gazdine blending components, and motor gazdine blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil used as distillate and residual field bit in Table 2.
- Line (25) of Table 1: "Gross Imports of Refined Products" equals imports of LPG and ethane plus imports of finished petroleum products in Table 2.
- Line (26) of Table 1: "Exports of Refined Products" equals exports of LPG and ethane plus exports of finished petroleum products in Table 2.
 - Line (27) of Table 1: "Not Imports of Refined Products" equals the difference between lines (25) and (28) of Table (1).
- I fam 628 of Table 1: "Total New Supply of Products" equals grade oil input to efficiency plus facilities of production of NCPA, and finished performs producting his importance of navieral guardian and injectorate, no production of the production
- Line (29) of Table 1: "Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and others, and finished petroleum products in Table 2.
- · Line (30) of Table 1: "Total Petroleum Products Supplied for Domestic Use" equals total products
- . Lines (31) through (37) of Table 1 equal the respective products supplied in Table 2.
- Line (38) of Table 1: "Other Products Supplied" equals the sum of natural guacine and isopentane, unfractionated stream, plant condensate, avisition gasoline, naphth a: 400 Dep. For perceivation feedstock uses, other oils >400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt r. road oil still uses, and missellaneous products surplied in Table 2.
- Line (39) of Table 1: "Total Reclassified" is a balancing item equal to the sum of unfinished oils, motor
 gasoline blending components, and aviation gasoline blending components products supplied in Table 2.
- . Line (40) of Table 1: "Total Product Supplied" is equal to total products supplied in Table 2.
- The sum of lines (41) and (42) of Table 1, stocks of "Crude Oil and Lease Condensate (Excluding SPR)" and stocks held by the "Strategic Petroleum Reserve," equals ending stocks of crude eil in Table 2. SPR stocks are reported on Prom EIA-99.
- Line (48) of Table 1, stocks of "Refined Products," equals the sum of LPG and chane and finished petroleum product stocks in Table 2.

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supplied in Table 2.