Crude Petroleum and Petroleum Products

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The total demand [4] for petroleum products in 1972 exceeded the 6-billion-barrel mark for the first time, increasing from the 1971 level by 437 million barrels or 7.8%.

The high level of industrial activity, colder-than-normal weather, and the substitution of fuel oils for short supplies of natural gas and low-sulfur coals all contributed to the unusually high increase in domestic product demand of 7.9%. Refined products exports were down slightly from the 1971 level.

Domestic production of crude oil and natural gas liquids was unable to keep pace with the increased demand, and imports were increased 21.1% and stocks were reduced by 85 million barrels.

The Department of the Interior was able to satisfy court orders that had canceled leasing of areas off the Louisiana coast in 1971, and lease sales were held in September and December 1972. At yearend the Alaskan pipeline continued to be delayed by court orders pending resolution of environmental concerns.

The increasing volume of natural gas liquids recovered from natural gas has made it desirable to present data on these liquids with crude oil data, as these liquids are blended with refinery products and are similar to materials recovered from refinery gases.

The Bureau of Mines uses crude-oil production data (including field condensate) compiled by State agencies for those States that compile the information. Where such data are not available, monthly questionnaires are sent to all pipeline companies operating within the State. Annual canvasses and State agencies also provide supplemental information on the value of crude petroleum at wells, and the number of producing wells.

Individual refineries reported monthly receipts, input, stocks, refinery production, and deliveries. Data on both product stocks at refineries and pipeline and bulk terminal stocks are collected. These data are also published monthly. Annually, sales of fuel oils, asphalt and road oils by uses, and refinery capacity are canvassed.

Demand by Product.—*Gasoline.*—The domestic demand for motor gasoline increased 6.3% in 1972 to 2,333,777,000 barrels. Emission control devices added to new car engines to meet Federal Government standards have caused a sharp decline in efficiency, accounting, in part, for the sharp increase in demand. The demand for aviation gasoline continued the downward trend in both the domestic and export markets. Domestic demand declined 7.1% in 1972 to 16,628,000 barrels, and exports declined 57.3% to 529,000 barrels.

Distillate Fuel Oil.—Domestic demand for distillate fuel oil in 1972 was 1,066,049,000 barrels, compared with

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[4] Certain terms as used in this chapter are more or less unique to the petroleum industry. Principal terms and their meaning are—
Total demand.—A derived figure representing total new supply plus decreases or minus increases in reported stocks. Because there are substantial secondary and consumers' stocks that are not reported to the Bureau of Mines, this figure varies considerably from consumption.
Domestic demand.—Total demand less exports.
New supply of all oils.—The sum of crude oil production, plus production of natural gas liquids, plus benzol (coke-oven) used for motor fuel, hydrogen, and other hydrocarbons, plus imports of crude oil and other petroleum products.
Transfers.—Crude oil conveyed to fuel-oil stocks without processing, or reclassification of products from one product category to another.
All oils.—Crude petroleum, natural gas liquids, and their derivatives.

971,316,000 barrels in 1971. The increase of 9.8% was the highest on record for this fuel. Distillate fuel oil in most instances has a low sulfur content that is able to meet the various metropolitan area sulfur standards and thus entered markets formerly reserved for coal and residual fuel oil. Industrial and utility users of natural gas had to switch to distillate fuel oils in some areas of the country during the last quarter of 1972 because of tight natural gas supplies.

Residual Fuel Oil.—Residual fuel oil total demand increased at the rate of 230,000 barrels daily in 1972 to 937,707,000 barrels, and about 90% of the growth was in the electric utility market. While residual fuel oil lost some markets to distillate fuel oil, it picked up others from coal and natural gas. Imported residual fuel oil supplied 68.0% of demand requirements in 1972; 34.3% of this imported oil had a sulfur content of less than 0.5%, while only 18.9% of the 1971 imports had a low sulfur content.

Kerosine.—Markets for kerosine continued to decline, and demand was down 5.7% in 1972. The total demand for the year was 85,943,000 barrels for uses other than jet fuel.

Jet Fuels.—The total demand for kerosine-type jet fuels increased 7.2% in 1972 to 294,041,000 barrels, but demand for the naphtha type declined 6.9% to 89,406,000 barrels. The military used 105,153,000 barrels of jet fuel in 1972, compared with 112,968,000 barrels in 1971.

Liquefied Gases and Ethane.—After 2 years of low growth, the demand for liquefied gases increased 12.4% in 1972 to 425,118,000 barrels. During the fourth quarter of the year, demand increased 14.0%. Excessive rains and cold weather in the midwest delayed crop harvests, and large amounts of propane were required to dry the grains for storage, in substitute for

Table 1.—Salient statistics of crude petroleum, refined products, and natural gas liquids in the United States

(Thousand 42-gallon barrels unless otherwise indicated)

	1968	1969	1970	1971	1972 p
Crude petroleum:					
Domestic production (including lease condensate)	3,329,042	3,371,751	3,517,450	3,453,914	3,455,368
World production	14,093,150	15,214,885	16,710,826	17,662,793	18,598,008
U.S. proportion, percent	24	22	21	20	19
Exports [1]	1,802	1,436	4,991	503	187
Imports [2]	472,323	514,114	483,293	613,417	811,135
Stocks, end of year	272,193	265,227	276,367	259,648	246,395
Runs to stills	3,774,360	3,879,605	3,967,503	4,087,809	4,280,863
Value of domestic product at wells:					
Total, thousands	$9,794,826	$10,426,680	$11,173,726	$11,692,998	$11,706,510
Average per barrel	$2.94	$3.09	$3.18	$3.39	$3.39
Total producing oil wells Dec. 31	553,920	542,227	530,990	517,318	508,443
Total oil wells completed during year (successful wells)	14,342	14,368	13,020	11,858	11,306
Refined products:					
Exports [1]	82,742	83,449	89,467	81,342	81,281
Imports (including unfinished oils and plant condensate) [3]	567,046	641,437	764,769	819,463	924,121
Stocks, end of year [4]	647,439	656,344	675,502	695,878	712,584
Completed refineries, end of year	284	281	279	282	277
Daily crude-oil capacity	11,740	12,074	13,020	13,437	13,775
Natural gas liquids:					
Production	550,311	580,241	605,916	617,815	638,216
Stocks, end of year	77,940	58,552	65,992	88,421	79,238
All oils:					
Total product and crude oil demand	4,990,467	5,249,056	5,463,259	5,638,853	6,076,288
Exports	84,544	84,885	94,458	81,845	81,468
Domestic demand	4,905,923	5,164,171	5,368,801	5,557,008	5,994,820

p Preliminary (except for crude production and value).
[1] U.S. Department of Commerce data.
[2] Reported to the Bureau of Mines.
[3] U.S. Department of Commerce data, except for unfinished oils and plant condensate which are Bureau of Mines.
[4] Stocks of refined products also include stocks of unfinished oils, natural gasoline, plant condensate, and isopentane.

natural gas which was in short supply. The demand for ethane increased 21.0% in 1972 to 106,201,000 barrels. More detail on liquefied gases and ethane can be found in the "Natural Gas Liquids" chapter.

Other Products.—This category includes refinery gas (still gas) used for fuel, asphalt, petrochemical feedstocks, petroleum coke, lubricating oils, special naphthas, miscellaneous products, road oil, and wax. Refiners used 170,993,000 barrels of still gas for fuel in 1972 and 14,678,000 barrels for petrochemical feedstocks. The domestic demand for asphalt increased 3.3% to 163,788,000 barrels (29,779,000 short tons). The demand for petrochemical feedstocks was strong in the domestic market, but exports declined. Domestic demand for the year increased 12.1% to 123,867,000 barrels, and exports decreased 15.3% to 4,457,000 barrels. Sales of marketable coke increased 10.5% in 1972. Exports increased 14.8% to 6,215,000 short tons, and domestic sales increased 7.0% to 7,074 million short tons. Domestic demand for petroleum coke, including 10,590,000 short tons of catalyst coke, was 17,664,000 short tons in 1972, an increase of 10.5%. The demand for lubricating oils increased 4.1% in 1972, but exports declined 6.0%. Domestic demand was 67,796,000 barrels, and exports comprised 14,995,000 barrels.

The total demand for special naphthas increased 7.0% in 1972 to 33,375,000 barrels. Domestic demand was 31,888,000 barrels and exports, 1,487,000 barrels. The domestic demand for road oil continued to decline in 1972. Demand was 7,538,000 barrels, down 11.2% from 1971. The domestic demand for petroleum wax increased 3.1% to 5,410,000 barrels, but exports declined 32.0% to 1,129,000 barrels. In addition to the above products refineries produced in small quantities a variety of products (petrolatum, medicinal oils, rust preventives, spray oils, etc.) which the Bureau of Mines grouped together as miscellaneous products. The domestic demand for these products in 1972 was 15,280,000 barrels, and exports were 1,062,000 barrels.

Shipments to U.S. Territories, Possessions, and Free Trade Zones.—Domestic demand, as defined in this chapter, refers to demand in all States of the United States. Shipments from the United States to territories, possessions, and free trade zones are included with exports. Any foreign receipts into these areas are not included in total imports shown.

Shipments from territories, possessions, or free trade zones to foreign countries are excluded from exports. Shipments from these areas into any State of the United States are included in import data.

Districts.—The Bureau of Mines reports production of crude petroleum and natural gas liquids and the number of wells drilled by States. Data for Louisiana, New Mexico, and Texas are also reported by districts.

New Mexico has two widely separated producing areas. The Southeastern district comprises mainly Lea, Eddy, Chaves, and Roosevelt Counties. The Northwestern district comprises mainly San Juan, Rio Arriba, Sandoval, and McKinley Counties.

Bureau of Mines producing districts in Texas correspond, with one exception, to the following grouping of the Texas Railroad Commission districts:

Bureau of Mines districts	*Railroad Commission districts*
Gulf Coast	Nos. 2 and 3.
West Texas	Nos. 7C, 8, and 8A.
East Proper	Part of No. 6 (East Texas field in Cherokee, Smith, Upshur, Rush, and Gregg).
Panhandle	No. 10.
Rest of State:	
North	Nos. 7B and 9.
Central	No. 1.
South	No. 4.
Other East Texas	Nos. 5 and 6 (exclusive of East Proper).

Separate production data are shown for the Louisiana Gulf Coast, including the offshore area.

Refinery operations are grouped by the Bureau of Mines into another set of districts called refining districts. These refining districts correspond with the grouping originated by the Petroleum Administration for War during World War II and called PAW districts (later changed to PAD districts).

PAD district	*Refining districts*
I	*East Coast*—District of Columbia and Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, and Florida, and the following counties of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof; and the following counties of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.
I	*Appalachian No. 1*—West Virginia and those parts of Pennsylvania and New York not included in the East Coast district.

II—*Appalachian No. 2*—The following counties of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.
II—*Indiana-Illinois-Kentucky*—Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of Ohio not included in the Appalachian district.
II—*Oklahoma-Kansas-Missouri*—Oklahoma, Kansas, Missouri, Nebraska, and Iowa.
II—*Minnesota-Wisconsin-North Dakota-South Dakota*—Minnesota, Wisconsin, North Dakota, and South Dakota.
III—*Texas Inland*—Texas, except Texas Gulf Coast district.
III—*Texas Gulf Coast*—The following counties of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.
III—*Louisiana Gulf Coast*—The following parishes of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Tangipahoa, St. Helena, Washington, and all parishes south thereof; the following counties of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson; and Mobile and Baldwin Counties, Ala.
III—*North Louisiana-Arkansas*—Arkansas and those parts of Louisiana, Mississippi, and

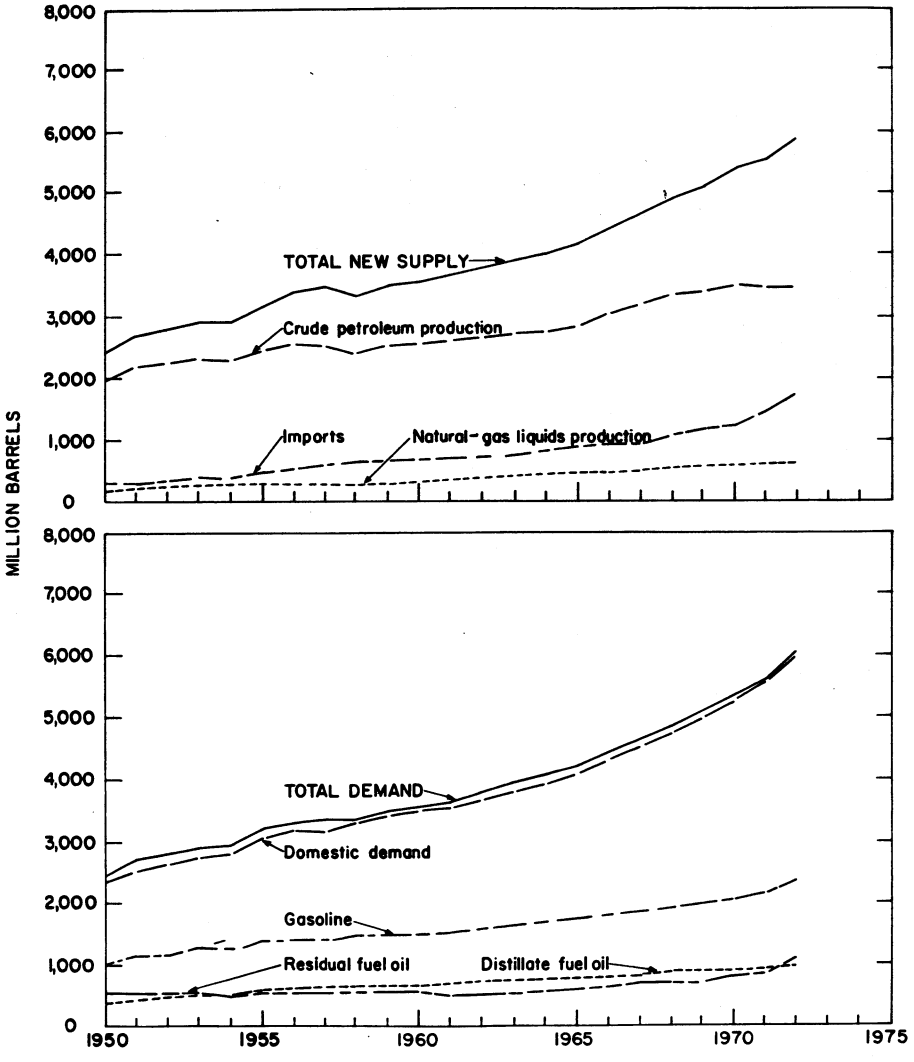

Figure 1.—Supply and demand of all oils in the United States.

Alabama not included in the Louisiana Gulf Coast district.

III—*New Mexico*—New Mexico.

IV—*Rocky Mountain*—Montana, Idaho, Wyoming, Utah, and Colorado.

V—*West Coast*—Washington, Oregon, California, Nevada, Alaska, Arizona, and Hawaii.

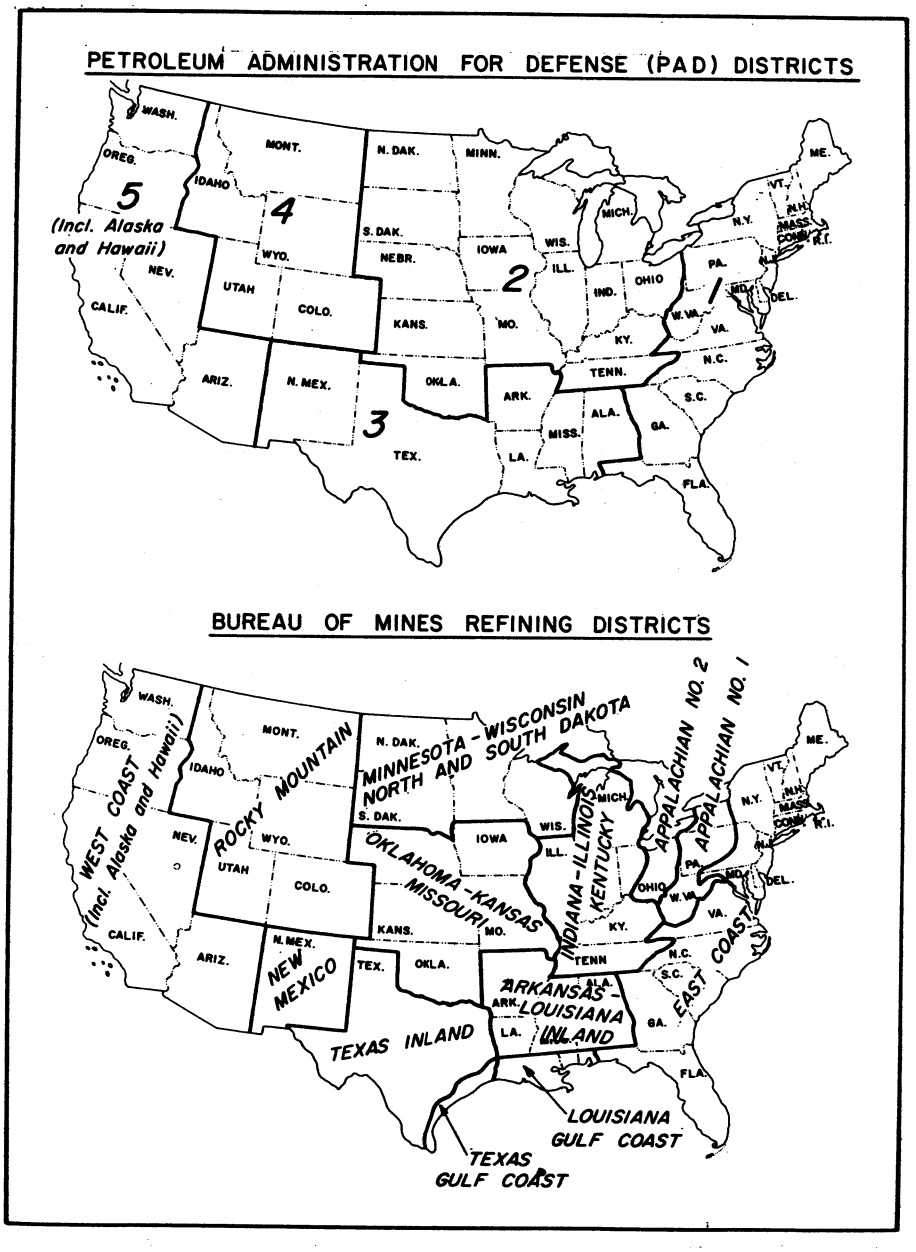

Figure 2.—Map of PAD Districts and Bureau of Mines Refining Districts.

CRUDE PETROLEUM

PRODUCTION

The production of crude oil (including lease condensate) in 1972 was 3,455,368,000 barrels, or a daily average producing rate of 9,441,000 barrels. For 1971, production was 3,453,914,000 barrels with a daily production average for the year of 9,463,000 barrels.

During the year, a tight supply situation developed, and several States with prorationing relaxed allowable rates in an effort to increase supply. Production in Texas for the year averaged 3,556,000 barrels daily compared with 3,350,000 barrels in 1971. As separation and desulfurization equipment was installed at new fields in northern Florida during the year, production increased from an average of 17,000 barrels per day in January to 83,000 barrels daily in December, and the daily average for the year was 46,000 barrels per day compared with 15,000 barrels in 1971. Production for the year increased at the rate of 12,000 barrels per day in Colorado, 6,000 in Alabama, 8,000 in Utah, and 3,000 in Michigan.

Production in 1972 declined at an average daily rate of 126,000 barrels in Louisiana, 34,000 in California, 23,000 in Wyoming, 17,000 in Oklahoma, 14,000 in Kansas, and 12,000 in Illinois.

CONSUMPTION

The total demand for crude oil in the United States in 1972 was 4,279,756,000 barrels, of which 3,472,432,000 was supplied from domestic sources, and 807,324,000 barrels came from foreign sources. The demand for domestic crude was down slightly from 1971, but the demand for foreign crude oil increased 33.0%.

Runs to Stills.—Refineries processed crude oil at an average daily rate of 11,696,000 barrels in 1972 and reached the highest daily level of operation in September when runs to stills averaged 12,113,000 barrels. Based on the total operable January 1, 1972, capacity, refineries operated at 88.0% of capacity in 1972.

Demand by State of Origin.—Distribution of domestic crude oil can be analyzed from the individual refinery reports which show origin of the crude oil receipts and from crude oil stock reports filed by refiners, pipeline companies, and terminal operators which show stocks of crude oil by States of origin and location. When long-distance shipments are involved, various crude oils may be mixed in transit or storage, and identification by origin may be only approximate.

SUPPLY AND DISTRIBUTION

The total distribution of crude oil in 1972 was 4,290.0 million barrels of which domestic crude oil accounted for 3,482.7 million barrels and foreign crude oil, 807.3 million barrels. The new supply of crude oil included 3,459.0 million barrels of crude oil and lease condensate produced in this country and 811.1 million barrels imported from foreign sources. Stocks of domestic crude oil declined 17.1 million barrels during 1972, but stocks of foreign crude oil increased 3.8 million barrels. The difference between supply and distribution, 10.2 million barrels, was classified as "unaccounted for" to avoid making arbitrary adjustments in the reported supply and consumption.

PRODUCTIVE CAPACITY

According to the American Petroleum Institute (API) the maximum crude oil production that could be attained in the United States as of January 1, 1973, was 10.3 million barrels daily, down 0.4 million barrels daily since January 1, 1972. This estimate was based on the assumption that such production could be achieved in 90 days with existing wells, well equipment, and present surface facilities, plus work changes that could be accomplished within that time. No production capacity was credited to the crude oil on the North Slope of Alaska since there was no way to market the oil, and installation of production equipment was incomplete.

WELLS

Drilling activity in 1972 increased for the first time since 1969 with 27,291 wells drilled, 1,440 more than in 1971. The drilling resulted in 11,306 new oil wells, 4,928 new gas wells, and 11,057 dry holes. The average depth of the wells drilled in 1972 was 4,932 feet, 126 feet deeper than the average in 1971.

States reporting the largest increase in

drilling activity for the year were Texas with an increase of 395 wells drilled, Montana with 326, Pennsylvania with 260, New Mexico with 218, and Ohio with 174. In California, 410 fewer wells were drilled than in 1971.

Two lease sales were held by the Department of the Interior in 1972 for acreage off the Louisiana Gulf Coast, one in September and the other in December.

There were 508,443 oil wells producing at the end of 1972 compared with 517,318 on December 31, 1971.

RESERVES

The API Committee on Petroleum Reserves estimated reserves of crude oil as of December 31, 1972, to be 36,339 million barrels, a decline of 1,724 million barrels for the year. Only Florida, Michigan, Montana, and Utah reported additions to reserves during the year. Reserves declined 879 million barrels in Texas, 370 million barrels in Louisiana, 152 million barrels in California, and 102 million barrels in Oklahoma.

REFINED PRODUCTS

At yearend 1972, transportation bottlenecks occurred in some areas because of the inability of domestic crude oil production and refining capacity to keep pace with unprecedented demand. Little refinery expansion occurred in 1972. In addition, imports of foreign sweet crude oil and finished products were limited because of in-

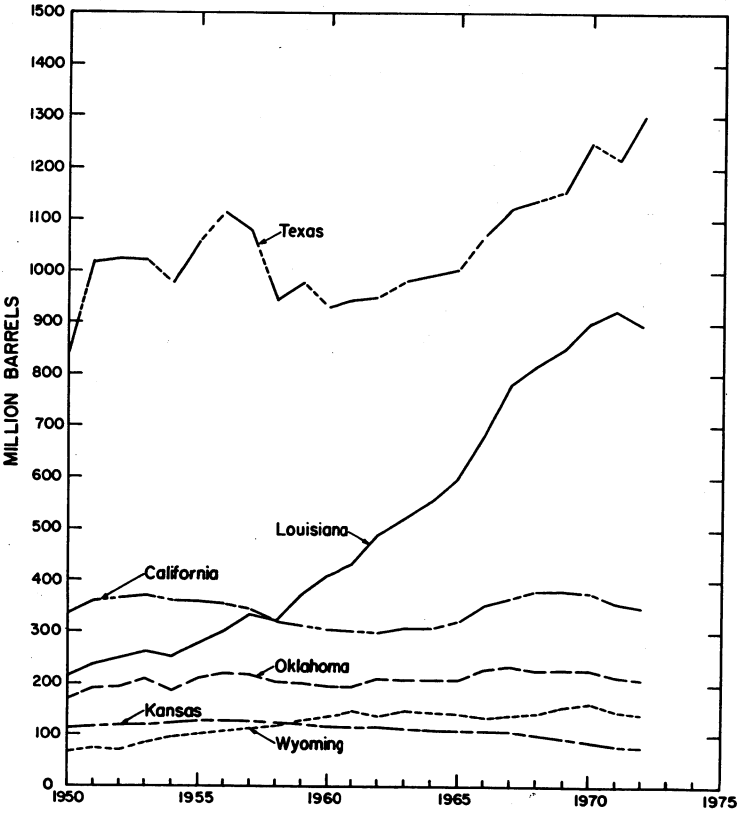

Figure 3.—Production of crude petroleum in the United States, by principal producing States.

creasing worldwide competition for quality fuels, and the United States lacked adequate dock and terminal facilities to handle expanded imports. Several inland refiners, especially those limited to refining sweet crude oil, had difficulty obtaining supplies and had to cutback on refinery operations. Higher cost of foreign crude oil, as a result of negotiations by the foreign governments and the devaluation of the dollar, eliminated much of the trading value of import tickets between inland and coastal refiners.

Gasoline was consumed principally in highway transport, aviation, mechanized farming, and power boating. Kerosine (other than the straight-run kerosine used as fuel in commercial jet aircraft) was used primarily in space heaters, as range oil, or for farm equipment. Distillate fuel oils, which include the light diesel fuels, were consumed for space heating, locomotive fuel, industrial use, electric utility use, vessel use, and military uses. Residual fuel oil was used primarily in electric utilities and for heavy-fuel use. Residual fuel is not normally moved by pipeline; its distribution depends on low-cost water transportation and limited tank movement.

Liquefied gases, in competition with kerosine and light distillate fuel oil for domestic use, were used as fuel in internal-combustion engines and were becoming increasingly important as the initial raw material in the development of many petrochemicals.

The total demand for petroleum products averaged 16,589,000 barrels per day in 1972, including a domestic demand of 16,367,000 barrels per day and exports of 222,000 barrels per day. Compared with 1971, total demand increased 7.8%, domestic demand increased 7.9%, and exports remained at the same level.

Total supply for the year averaged 16,370,000 barrels daily, and after allowing for crude oil losses and exports there was a decline in stocks in all oils averaging 232,000 barrels daily for the year.

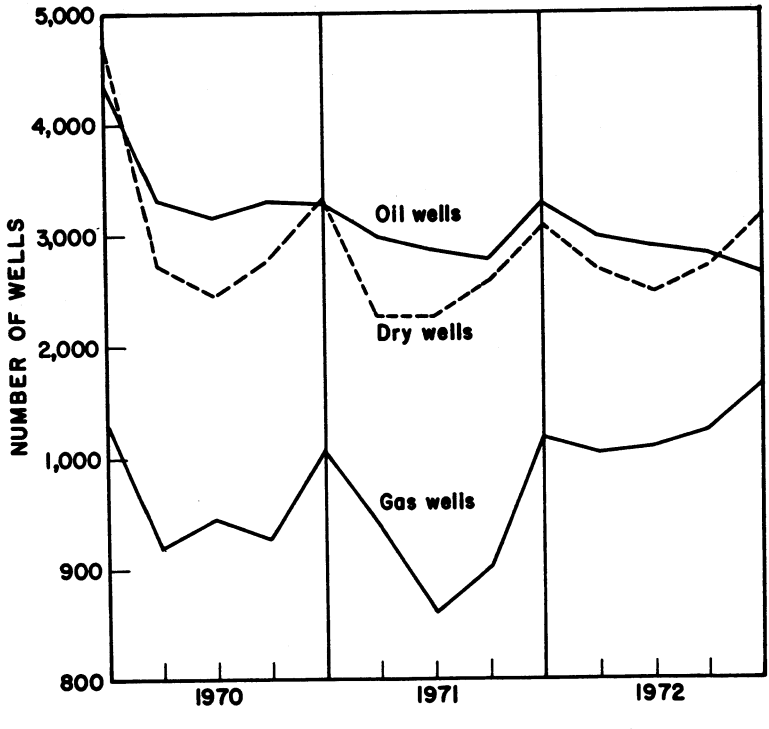

Figure 4.—Wells drilled for oil and gas in the United States, by quarters.

GASOLINE

The domestic demand for motor gasoline increased 6.3% in 1972 to 2,333,777,000 barrels, the highest increase reported since 1968. The high level of the general economy, which boosted new car sales to record levels, and the reduced efficiency of new car engines because of federal air emission standards and other equipment sent demand soaring. To keep up with the heavy demand, refineries maintained high yields of gasoline much later in the season than normal and entered the winter heating season with low stocks of distillate fuel oils which created spot shortages in some areas.

The new supply of motor gasoline in 1972 was 2,328 million barrels of which 1,986 million barrels was produced from crude oil, 307 million barrels from natural gas liquids, and 10 million barrels from other hydrocarbons and hydrogen; 25 million barrels was imported.

According to data compiled by API based on tax data reported by the States, 2,387 million barrels of motor gasoline was consumed in the United States in 1972 compared with 2,236 million in 1971. This differs from the demand data compiled by the Bureau of Mines, which do not include changes in secondary storage.

Aviation gasoline demand continued to decline in 1972 as it has for the past 14 years, and domestic demand was 16,628,000 barrels compared with 17,892,000 barrels in 1971.

KEROSINE

The markets for kerosine continued to decline in 1972, and demand was off 5.7%. Domestic demand was 85,854,000 barrels compared with 90,917,000 in 1971. The primary use for kerosine was for space heating, which represents about 78% of demand, but it is being replaced by more convenient fuels such as bottled gas (propane) and electricity.

DISTILLATE FUEL OIL

The 9.8% gain in domestic demand for distillate fuel oil in 1972 was attributed to colder-than-normal weather, the high level of industrial activity, and substitution for other fuels in areas where air quality restrictions limit the use of fuels with higher sulfur content, and where natural gas was in short supply. Domestic demand for the year was 1,066,049,000 barrels compared with 971,316,000 barrels in 1971. Exports declined from 2,761,000 barrels in 1971 to 1,214,000 barrels.

Meeting the strong demand for both gasoline and distillate fuel oil created problems for refiners in 1972. Some inland refiners had difficulty obtaining particular types of crude oil suited to their refineries and in some cases had to limit crude runs. The changeover from high yields of gasoline to distillate fuel oil was delayed until late fall, and stocks at the beginning of the 1972–73 heating season were uncomfortably low. Fortunately, the exceptionally cold weather of October and November did not continue. Controls were relaxed to permit more imports and refiners concentrated on higher production of distillate fuel oil, so that except for a few spot shortages in some areas, demand was met for the 1972–73 season.

The new supply of distillate fuel oil in 1972 was 1,030,960,000 barrels, an increase of 6.3% or 61,532,000 barrels more than in 1971. To meet the total demand requirements, 36,303,000 barrels were withdrawn from stocks.

RESIDUAL FUEL OIL

Residual fuel oil demand lost out in some heating and industrial markets because of air quality regulations, but the gain in the electric utility market was so high that the overall increase in the domestic demand for residual increased 10.5%. A strong factor in the growth was the increase in the new supply of low-sulfur residual fuel oil from domestic and foreign sources. About 34% of the residual fuel oil imported (exclusive of fuel for bunkering) had a sulfur content of 0.5% or less, while only 19% of the 1971 imports had this low a sulfur content. Over 22% of the residual produced in U.S. refineries in 1972 had a sulfur content of 0.5% or less, compared with 18% in 1971.

Electric utilities used 493,927,000 barrels for the generation of electric power in 1972 compared with 362,022,000 barrels in 1971.

The total demand for residual fuel oil in 1972 was 937,707,000 barrels including a domestic demand of 925,647,000 and exports of 12,060,000 barrels. The new supply for the year totaled 933,242,000 barrels of

which 68.3% was imported. To meet demand, 4.5 million barrels were withdrawn from stocks.

JET FUELS

Jet fuel demand increased 3.6% in 1972, slightly below the 1971 increase of 3.9% and well below the 13% annual growth rate of the 1960's. Airline efforts to curtail some flights and establish a greater utilization of existing seating capacity was instrumental in limiting demand growth. In addition, military use was down. The demand for kerosine-type jet fuel increased 52,000 barrels per day during 1972 to 803,000 barrels. Demand for the naphtha-type jet, used primarily by the military, after having increased only slightly in 1971, continued its overall decline by falling to 244,000 barrels per day in 1972.

Imports of jet fuel averaged 194,000 barrels per day in 1972 of which 164,000 barrels was imported in bond for use as fuel for aircraft engaged in flights with destinations outside the United States. There is no custom duty on these imports, and bonded imports of such fuels were not subject to import control regulations.

LUBRICANTS

The total demand for lubricants in 1972 increased 4.1% to 67,796,000 barrels. The

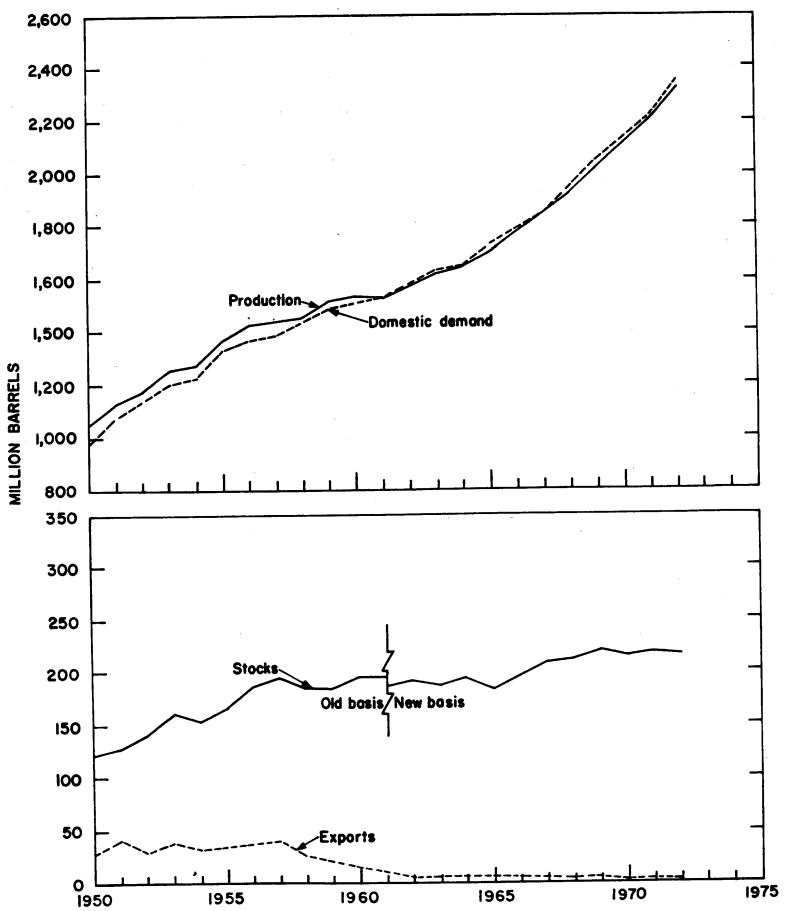

Figure 5.—Production, domestic demand, stocks, and exports of gasoline in the United States.

gain for the year was all in the domestic market, which was 52,801,000 barrels compared with 49,321,000 in 1971. Over half of the domestic sales of lubricants were for industrial use and the demand reacted to the level of industrial activity, which was up sharply in 1972.

LIQUEFIED GASES, ETHANE, AND ETHYLENE

Liquefied gases are derived from two sources. Those produced at refineries are called liquefied refinery gases to distinguish them from liquefied petroleum gases produced from natural gas. The liquefied petroleum gases (LPG) are all saturated (propane, butane, etc.). The liquefied refinery gases (LRG) may contain unsaturated compounds or olefins (propylene, butylene, etc.). The olefins are used as feedstocks for chemical plants. The saturated gases may be used as chemical raw materials or as fuel.

Separate data were collected on liquefied refinery gas used as fuel and that used as raw material for petrochemical feedstocks. Liquefied gases were also used in producing gasoline and are reported in this chapter as natural gas liquids at refineries or as gasoline.

Total demand for liquefied gases, excluding that blended into other products at refineries or terminals in 1972 was 425,118,000 barrels compared with 378,398,000 barrels in 1971. Domestic demand for the year increased 12.1%, and exports increased 22.1%. Through the first 9 months of 1972, domestic demand showed a significant gain over that of the same period of 1971, and in the last quarter it soared to 18.3%. Wet weather in the midwest farm belt delayed the crop harvest. Normally grain elevators use natural gas to dry the grain, but exceptionally cold weather caused a shortage of natural gas so that it was necessary to substitute liquefied gases to dry the grain.

The demand for ethane (including ethylene) was 106,201,000 barrels in 1972 compared with 87,744,000 barrels in 1971.

ASPHALT AND ROAD OIL

Shipments of asphalt and asphaltic products in the United States in 1972 were 31,121,000 short tons compared with 30,023,000 short tons in 1971. Asphalt for paving, which represents 77.4% of the total sales, was 24,100,000 short tons, up slightly from the 23,821,000 short tons sold in 1971. Shipments of roofing products increased a significant 20.3% in 1972 to 5,248,000 short tons, while shipments for all other products declined 3.6%. The shipment data include, in addition to refinery production and imports, various emulsifiers and blenders.

The domestic demand for asphalt in 1972 was 29,779,000 short tons, an increase for the year of 3.3%.

The demand for road oil decreased from 8,487,000 barrels in 1971 to 7,538,000 barrels in 1972.

OTHER PRODUCTS

Special Naphtha.—Special naphthas were used primarily for paint thinners, cleaning agents, and solvents. The domestic demand for special naphthas increased 7.1% in 1972 to 31,888,000 barrels, while exports increased 2.2% to 1,487,000 barrels.

Waxes.—The domestic demand for petroleum wax increased 3.1% in 1972 to 757,400 short tons, but exports declined 74,340 tons to 158,060 short tons so total demand for the year was off 5.3%. The annual survey of wax sales conducted by the API for 1972 represents about 79% of the domestic demand reported by the Bureau of Mines. A breakdown of the 1972 data, by end use and percentage change, from 1971 is as follows: Paperboard containers, 122,905 tons, down 5.6% paper wrappers, 95,678 tons, up 2.2% corrugated paperboard, 78,163 tons, up 8.8% candles, molded novelties, and decorative items, 103,601 tons, up 20.7%, and all other uses, 196,702 tons, up 9.1%.

Coke.—Domestic demand for petroleum coke increased 10.5% in 1972 to 17,664,000 short tons, while exports increased 14.8% for the year to 6,215,000 short tons; the result was that total demand was up a significant 11.6%. Refineries used 11,231,000 short tons as fuel in 1972, including 11,064,000 short tons of catalyst coke and 167,000 short tons of marketable coke. Catalyst coke is formed in the catalytic cracking units in the refining process and can only be used as a refinery fuel.

Still Gas.—Refineries used 1,046,492 million cubic feet of still gas as fuel in 1972, 6.6% more than in 1971. Still gas used as petrochemical feedstocks in 1972 totaled 14,678,000 barrels, 9.2% less than in 1971.

Petrochemical Feedstocks.—In addition to liquefied gases and ethane petroleum refineries supplied the United States petrochemical industry with 123,867,000 barrels of other feedstocks in 1972. This was an increase of 12.1% over the 1971 total. Exports declined 15.3% for the year to 4,457,000 barrels.

Unfinished Oils.—Unfinished oils are oils that have been partially refined and will be further processed by a refinery. The rerun (net) of unfinished oils represents the receipts of domestic or foreign oil plus or minus the stock change.

Miscellaneous Finished Products.—The petroleum industry produces a variety of miscellaneous products that are sold directly to consumers or in bulk to specialty companies which package and distribute them under various trade names. Included in this category would be absorption oils, medicinal oils, insecticides, petrochemicals and solvents. The domestic demand for these products in 1972 was 15,280,000 barrels.

TRANSPORTATION AND DISTRIBUTION

CRUDE OIL

A transportation system consisting of pipelines, tankers, barges, tank cars, and tank trucks moves the crude petroleum to refineries for processing. Refineries received 76.7% of their crude oil supply by pipeline, 22.1% by water, and the remaining 1.2% by tank cars and tank trucks in 1972.

States in PAD district I accounted for 39% of the petroleum product domestic demand in the United States. Refineries in this district supplied about 24% of the product demand. The supply of crude oil processed at these refineries in 1972 was 74% foreign; 22% was from other PAD districts, and 4% from within the district. PAD district II, the second largest consuming district, was also a deficit producing and refining area; however, output of refineries in that district represented 81% of demand in 1972. About 31% of the crude oil processed in refineries in PAD district II was produced in that district, 47% was received from PAD district III, and 8% was from PAD district IV; 14% was imported from foreign sources. Both PAD districts III and IV produced and refined petroleum in excess of their demand requirements and helped meet the supply deficits of other districts.

The refined products produced at refineries in PAD district V in 1972 represented almost 94% of the domestic product demand for that district. Crude oil produced in the district supplied 62% of refinery input, and foreign crude oil, 36%; 2% was received from other PAD districts.

Data collected on receipts of domestic and foreign crude petroleum at refineries in the United States show receipts from local production (intrastate), receipts from other States (interstate), and receipts of imported crude. These data by method of transportation indicate the final receipts by water, pipeline, and tank car and truck. Receipts of domestic crude by water usually are moved by pipeline from the point of production to the point of water shipment.

Total receipts of crude oil at refineries in 1972 were 4,279.2 million barrels, an increase of 198.4 million barrels for the year. Receipts from domestic sources increased 3.0 million barrels in 1972, overland receipts of foreign crude oil (from Canada) were 46.8 million barrels higher, and foreign receipts from overseas sources increased 148.6 million barrels.

More overseas foreign crude oil entered the midwest and gulf coast refineries in 1972 because domestic crude oil was in short supply, and exchanging of foreign quotas for domestic crude oil became more difficult.

Refineries processed 4,280.9 million barrels of crude oil in 1972, reported a net of 1.1 million barrels used for refinery fuel and losses, and withdrew 2.8 million barrels from stocks.

REFINED PRODUCTS

Domestic demand for petroleum products averaged 16,367,000 barrels daily in 1972, a record gain of 7.6% above the 15,213,000 barrels daily for 1971. The demand, broken down by PAD districts, is as follows: District I, 6,459,000; district II, 4,462,000; district III, 2,851,000; district IV, 436,000; and district V, 2,159,000.

PAD district I imported an average of

2,078,000 barrels daily of refined petroleum products in 1972 and received 2,926,000 barrels daily from other districts. Shipments from PAD district I to PAD district II averaged 141,000 barrels daily, and 21,000 barrels per day of petroleum products were exported.

PAD district II received an average of 759,000 barrels daily of refined products from other districts and imported 64,000. The district shipped 60,000 barrels daily to PAD district I and 73,000 barrels daily to PAD district III, and exported 10,000 barrels daily.

PAD district III shipped an average of 2,863,000 barrels daily of refined petroleum products to PAD district I, 594,000 barrels daily to PAD district II, 27,000 barrels daily to PAD district IV, and 63,000 barrels daily to PAD district V and exported 104,000 barrels daily. The district received 73,000 barrels per day of refined products from PAD district II and imported 45,000 barrels daily from foreign sources.

PAD district IV shipped an average of 105,000 barrels daily of refined petroleum products to other districts, received 53,000 barrels daily from other districts, and imported 15,000 barrels daily.

PAD district V received an average of 63,000 barrels daily of refined products from PAD district III and 81,000 barrels daily from PAD district IV, and imported 112,000 barrels daily. PAD district V shipped 3,000 barrels daily to PAD district I and 26,000 barrels daily to PAD district IV, and exported 87,000 barrels daily.

PIPELINES

As of January 1, 1971, there were 218,604 miles of pipelines transporting crude oil and refined products in the United States. This represents an increase of 9,126 miles from the total reported in the previous Bureau of Mines survey for January 1, 1968. The mileage of gathering lines declined 2,992 miles during the 3-year period; crude trunkline mileage increased 48,241 miles and 7,877 additional miles were reported for product pipelines.

Crude oil pipelines delivered 3,281.6 million barrels to refineries in 1972 compared with 3,094.9 million barrels in 1971. Petroleum products pipelines delivered 2,967.9 million barrels in 1972, an increase of 323.1 million barrels for the year.

The total crude oil required for pipeline fill as of January 1, 1971, was 73,642,000 barrels. Line fill for product pipelines required 39,908,000 barrels.

RAIL, TANK TRUCK, BARGE AND TANKERS

According to the annual study of the Association of Oil Pipelines, the total tonnage of crude petroleum and petroleum products transported in 1971 was 1,719,813,000 short tons of which 46.9% was moved by pipelines, 24.2% by water carriers, 27.4% by motor carriers, and 1.5% by railroads. Petroleum products represent 64.2% of the total volume transported, 43.0% of the pipeline movements, 72.5% of the water carrier movements, 91.3% of motor carrier movements, and 96.6% of the railroad movement.

STOCKS

Stocks of all oils at the end of 1972 totaled 959.0 million barrels, the lowest year-end level since 1967. The decline for the year was 85.0 million barrels, of which refined products stocks were down 65.8 million barrels and stocks of crude oil were down 13.2 million barrels. Of deep concern were stocks of distillate fuel oil which had declined 36.3 million barrels during 1972 and were at the lowest December closing level since 1966. Fortunately, because of warmer-than-normal weather during the first quarter of 1973, and the fact that refiners concentrated on a high distillate fuel oil output, serious shortages were averted in the 1972–73 heating season.

A tight crude oil supply situation developed in the last half of 1972 and some refiners had to cutback operations. By year-end, crude oil stocks declined to 246.4 million barrels, the lowest level since 1966.

PRICES

Crude Oil.—With the exception of a few changes in December for Pennsylvania-grade crude oil, there were no changes in posted prices in 1972. The average value

of crude oil at the wellhead in 1972 was $3.39 per barrel, the same as in 1971.

Refined Products.—The price controls in effect in 1972 kept refinery prices at the August 1971 level through most of the year, and though there were some upward adjustments in distillates and lubricating oils late in 1972, average refinery prices were down slightly from 1971. Tanker rates were below the 1971 levels, and this was reflected in the decline in posted prices for the heavy fuel oils at the seaboard.

The average price of regular-grade gasoline at service stations, based on 55 representative U.S. cities, was down 0.7 cent per gallon in 1972, but State and local taxes increased 0.4 cent per gallon so the average price to the consumer declined only 0.3 cent for the year.

When price controls went into effect in August 1971 stocks were at a high level and product prices were low. Motor gasoline was still in the peak summer demand period when prices are normally higher, but for heating oil this was still within the months that discounts are used as an incentive to encourage summer fill-up of customers' storage facilities to ease peak winter demands. The low price base for distillates was cited as one of the reasons refiners delayed adjusting refinery production from gasoline to distillate fuel oil until later in the 1972 season.

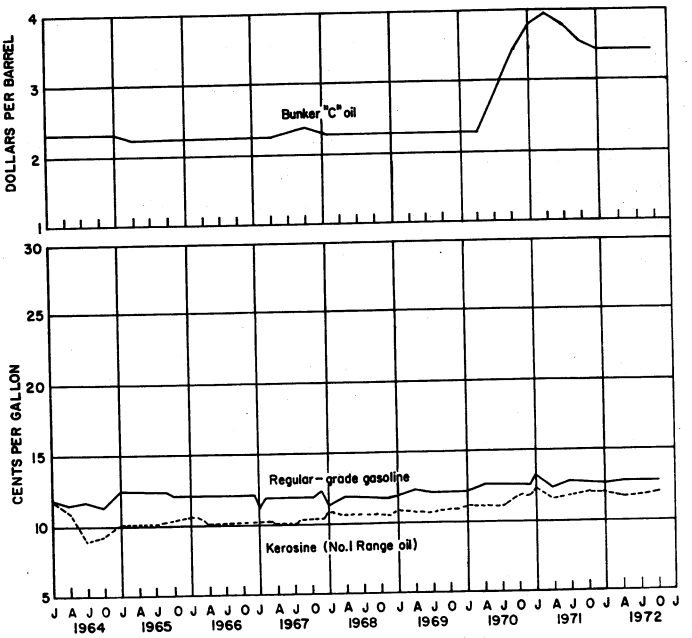

Figure 6.—Prices of Bunker "C" oil at New York Harbor, No. 1 Range oil at Chicago district, and regular-grade at refineries in Oklahoma, by quarters.

FOREIGN TRADE

Imports of crude oil and refined products totaled 1,735.3 million barrels in 1972 compared with 1,432.9 million in 1971. Crude oil accounted for 197.7 million barrels of the 302.4-million-barrel increase. About midyear it became apparent that domestic crude oil production could not be increased enough to meet demand requirements, and it was necessary to adjust import quotas upward.

Crude oil imports for the year were 811,135,000 barrels of which 38.5% was from Canada, 13.5% from other Western Hemisphere countries, 21.2% from Africa, 19.3% from the Middle East, and 7.5% from other Eastern Hemisphere countries.

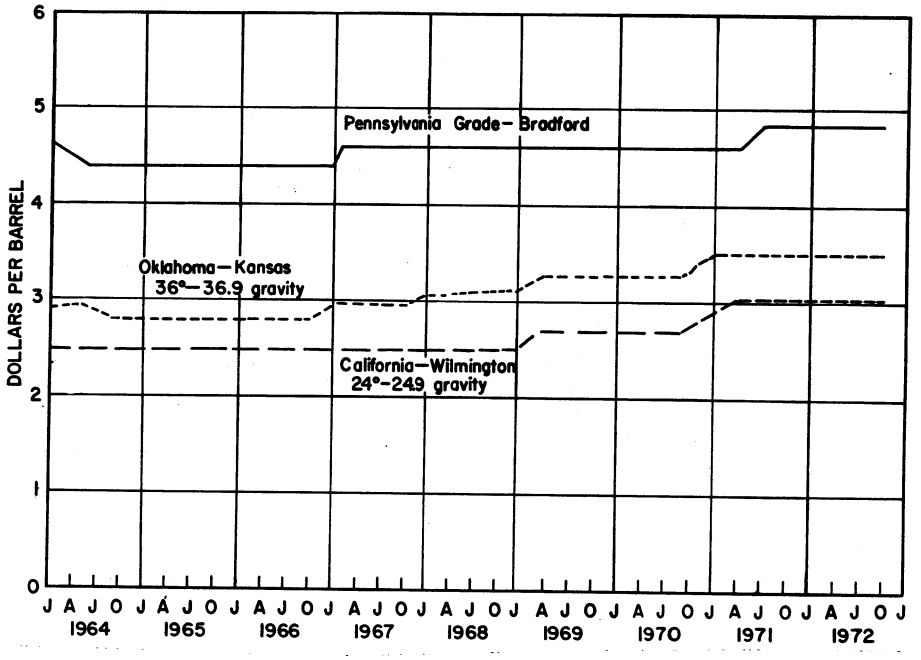

Figure 7.—Posted prices of selected grades of crude petroleum in the United States, by quarters.

Canada supplied 99.5% of the natural gasoline and condensate imported into this country in 1972, and other Western Hemisphere countries supplied the rest of the 31,428,000 barrels.

Unfinished oils imported for further refining in 1972 totaled 45,705,000 barrels, and these were primarily from South American and the Caribbean.

Refined product imports for the year were 846,988,000 barrels. Canada supplied 7.3%; other Western Hemisphere countries, 81.4%; Europe, 7.6%; Africa, 1.3%; the Middle East, 1.4%; and other Eastern Hemisphere countries, 1.0%. Included in the total refined petroleum product imports were 59,980,000 barrels of jet fuels, 5,296,000 barrels of distillate fuel oil, and 40,769,000 barrels of residual fuel oil which were withdrawn from bond for use as fuel for aircraft and vessels engaged in overseas commerce. These imports were exempted from oil import controls and from tariff duties. Residual fuel oil imported by the military for offshore use in 1972 totaled 5,035,000 barrels. This use by the military was exempt from import control regulations, but other imports by the military were under quota or license.

Exports of petroleum in 1972 were 81,468,000 barrels which was slightly below the 1971 level. There was a strong export market for petroleum coke and liquefied gases which offset much of the declines for the other products.

The international tanker market in 1972, though less volatile than in 1971, reflected worldwide marketing conditions. Freight rates continued the decline which near the

end of 1970 had reached the lowest level since early 1967. By midspring the single-voyage (spot) tanker market, according to a London-based chartering service, flattened out at about Worldscale 55, almost 100 Worldscale points below the spring 1971 level. Worldwide demand for oil was still below its normal growth rate, and the second mild winter left petroleum marketers overstocked with crude. Some relief came in mid-1972 shortly following a 3-month strike by Japanese seamen and the interruption of crude oil production by the nationalization of most Iraq Petroleum Co., Ltd., holdings in Iraq. The upturn continued through the remainder of 1972 as world demand was up and the United States became more dependent on imports. At yearend spot market rates were about 12.5% Worldscale.

NATIVE ASPHALT

Bituminous Limestone, Sandstone, and Gilsonite.—Natural rock asphalt and limestone rock asphalt were produced in Alabama, Missouri, and Texas and were used for road building material. Gilsonite was produced in Utah, and most was shipped to a refinery in Colorado and converted into petroleum products. The total production of native asphalts and related bitumens in 1972 was 1,995,374 short tons with a value of $10,303,000.

WORLD REVIEW

During 1972 much of the petroleum consuming and producing world developed a growing awareness of an impending energy crisis. This was highlighted by fuel shortages in several marketing areas and associated supply and financial problems.

Price and ownership disputes and agreements continued to feature the confrontations between the major international oil companies and members of the Organization of the Petroleum Exporting Companies (OPEC). A major price adjustment early in the year reflected the devaluation of the U.S. dollar in 1971.

World crude oil production in 1972 increased 5.3% to a total of about 50.8 million barrels per day. This compares with a 5.7% increase in 1971. Production increases in the Eastern Hemisphere were lower than in the past because of certain restraints. Kuwait joined Libya in limiting production for conservation purposes. Output in Iraq was hindered by the nationalization of most of the country's production capacity. In addition major union strikes in Japan and Australia affected production in Abu Dhabi and other Middle East countries.

Exploration and development drilling increased after several years of decline. Most of the increase was in the United States where wells drilled increased 5.5%. Other areas of significant exploration were the Canadian Arctic, the northern parts of the North Sea, Saudi Arabia, Peru, Egypt's western desert, west-central Africa, offshore northwestern Australia, and Indonesia.

Algeria.—The Algerian state oil company Société Nationale pour la Recherche, la Production, la Transport, la Transformation, et la Commercialisation des Hydrocarbures (SONATRACH) was successful during the year in obtaining customers, including several foreign countries and the major international oil companies, for its nationalized oil production. Algeria nationalized essentially all of its production in 1971, and it was doubtful whether SONATRACH could market all of its output. Unique among the recent agreements was SONATRACH's long-term contract with Commonwealth Oil Refining Co. (Corco). The pioneering $8 billion, 25-year contract calls for the delivery to Corco of 380 million tons (about 2.9 billion barrels) of crude oil and other hydrocarbon materials.

Angola.—Crude oil shipments commenced from the new Cabeca da Cobra field located about 25 miles from the port of Santo Antonio do Zaire. Operated by a subsidiary of Petrofina, Inc., for a group of Belgian, Portuguese, and U.S. companies, the field started production from 10 wells at a rate of 1,800 barrels per day.

Argentina.—During the year the Government approved a $170 million expansion program for Yacimientos Petrolíferos Fiscales (YPF). The program included sub-

stantial increases in exploration, production, and refining. Crude oil production is to be raised to 550,000 barrels per day. Included in the program is further exploration and development on Tierra del Fuego and in the Santa Cruz-Condor area and refinery expansion in the Buenos Aires area.

Austria.—Attempts by the state company Österreichische Mineralölverwaltung, A. G. (ÖMv) to find new sources of oil was concentrated in drilling efforts abroad; however, the results were not promising. The well drilled in the Tunisia's Gulf of Hammamet was dry, but seismic surveys are scheduled for 1973. Other drilling resulted in the discovery of gas in Iran and Austria.

Bahamas.—A $35 million port and oil tanker terminal capable of handling up to 350,000-deadweight-ton tankers and over 400,000 barrels per day is scheduled for completion in 1974. The project is a joint venture of the Bahama Government and a private U.S. firm.

Expansion of the 250,000-barrel-per-day Freeport refinery will increase the capacity to 500,000 barrels per day. The plant, which is scheduled for completion in early 1973, will have a throughput capacity larger than any in the United States.

Bahrain.—A $90 million drydock for tankers of up to 300,000 deadweight tons, to be built by the Organization of Arab Petroleum Exporting Countries (OAPEC), is to be located in Bahrain. Cost of the project, which is to begin in 1973, will be shared 60% by OAPEC member states and 40% by Portuguese and Japanese companies.

Brazil.—Production was slightly below the 1971 level and the offshore Sergipe field was not expected to go into operation until mid-1973. Reportedly, the Guaricema and Caioba fields will produce about 60,000 barrels per day at that time and only the Atalaia producing platform needs to be completed.

Canada.—Whereas many natural gas discoveries have been reported in the Mackenzie Delta of northwestern Canada, the first oil discovery in the delta in 3 years was made in September 1972. Oil of 24° API gravity was encountered in several sands. Exploration in the Atlantic Ocean southwest of Sable Island resulted in a third gas find. Flow rates from five productive zones ranged from 5 to 21 million cubic feet per day and three zones tested 120 barrels per day of 46–48° API gravity condensate.

An agreement was signed in November 1972 between the provincial government of Nova Scotia and Shaheen Natural Resources for the construction of a 200,000-barrel-per-day refinery on the Strait of Canso to be completed in 1974–75. The plant will be the biggest in Canada, and Shaheen will be the country's third largest refiner. Completion of the agreement is subject to a firm, long-term supply contract and a satisfactory construction price. The complete project is estimated to cost $223 million. Shaheen's other refinery, the 100,000-barrel-per-day Come-by-Chance refinery, is due onstream in 1973. It was forecast by several large Canadian oil companies in testimony before the Alberta Energy Board that synthetic crude oil production from Alberta tar sands should reach 1.0 million barrels per day by 1985 and 3.5 million barrels per day by the end of the century.

China, People's Republic of.—Under a current 5-year trade agreement, Romania is to deliver 30 drilling rigs per year, each capable of reaching 16,400 feet, indicating the People's Republic of China's increasing interest in finding new reserves. Production of crude oil and shale oil in 1972 was about 30 million tons (600,000 barrels per day). In addition, the Chinese were preparing to drill offshore in the Gulf of Pohai where chances of finding oil are rated high. A four-legged, self-elevating drilling barge is to be delivered in March 1972 by a Japanese firm. A U.S. geologist estimated that the country's recoverable crude oil reserves in established oil-bearing areas at 19.6 billion barrels which, if fully developed, would allow a production of 2,700,000 barrels per day.

Columbia.—Production of crude oil was down considerably in 1972 because of conservation measures and dwindling reserves. An arbitration board determined that the Putumayo field was being overproduced, and the Government ordered the company to cut production from 70,000 to 30,000 barrels per day. Production from most other fields continued to decline, and no new discoveries seem likely to reverse the trend. The only new field discovery was in the Upper Magdalena area and tested less than 1,000 barrels per day.

Congo (Brazzaville).—In March, production from the offshore meraude Marine field started at an initial rate of 100,000 barrels per day and was expected to reach 500,000 barrels per day by 1974. The field was discovered in 1969 and has presented many problems because of its heavy crude oil. The only other field is the onshore Pointe Indienne oilfield, where production has declined from 14,000 barrels per day to less than 500 barrels per day.

Denmark.—Dan oilfield, Denmark's first, located 160 miles offshore in the North Sea started production on July 4. Initial production was about 8,000 barrels per day; however, the producing platform is capable of handling up to 30,000 barrels per day in case nearby geological structures prove to have commercial reserves. Production was tankered to coastal refineries. The producing company, Dansk Undergrunds Consortium (DUC), is required to deliver the main share of Dan production to Denmark. Later in the year DUC announced that it would attempt to stimulate the production capability of the oil-bearing chalk formation in the field, which was experiencing production difficulties. DUC also planned to drill five exploration wells, four of which would be offshore.

Ecuador.—During August the first shipment of crude oil from the Oriente region of Ecuador was delivered via a 318-mile pipeline to the deepwater terminal at Balao near the port of Esmeraldas. This marked the beginning of Ecuador's role as a major Latin American oil exporter. Exports averaged 200,000 barrels per day at yearend.

The Ministry of Natural Resources announced that the joint operations of Texaco Petroleum Co. and Ecuadorian Gulf Oil Co. had drilled 115 wells in their concession area in the Oriente region of Ecuador since they began exploration there 5 years ago and that 104 of these were producing wells. This group is Ecuador's major producer.

The latest in a series of regulation changes designed to tighten control of the Nation's oil industry occurred in 1972. Main items in the new rules include the relinquishment of 60% of each company's concession area within 12 months, a 15% surcharge on the f.o.b. value of crude oil exports, and the requirement that all companies operating in Ecuador renegotiate their contracts with the Government. In addition tax reference prices were introduced. Government income from oil exports is estimated now at $1.40 per barrel.

Egypt, Arab Republic of.—Production from existing fields (excluding those operated by Israel in occupied Sinai) continued to decline. This was due primarily to declining pressure at the country's largest oilfield, El Morgan field in the Gulf of Suez. However, production is expected to increase in the near future as a 300,000-barrel-per-day water injection project is being installed at El Morgan. It will be one of the world's largest waterflood pressure maintenance projects and will cost more than $30 million. A new field in the Western Desert came onstream during 1972 at a rate of 10,000 barrels per day, and two other Western Desert fields (one 20,000 barrels per day) were scheduled for production in early 1973.

The Government also offered a new invitation to foreign companies to explore for oil in the Arab Republic of Egypt. Agreements of the production-sharing or service-contract type with flexible terms are envisaged. A number of U.S. independent and large European companies have shown an interest.

France.—Exploration continued to be concentrated in the Aquitaine region. A total of 13 exploratory wells were drilled in 1972 compared to 12 in 1971, and geophysical activity decreased about 20%. French companies continued to explore for oil in foreign areas at a rapid pace. Regions of major activity include the North Sea, Africa, Canada, and Iran. French companies have also been seeking maritime permits on the Atlantic and Mediterranean Continental Shelves of France. Production of crude oil by French companies outside France averaged about 1.5 million barrels per day in 1972.

Gabon.—The Grondin-Marine field discovered 25 miles offshore in 1971 by Société Elf des Pétroles d'Afrique Equatoriale was scheduled to come into production in early 1973. Production is expected to average about 40,000 barrels per day.

Germany, West.—After many months of negotiation following the 1969 decision by the International Court of Justice in The Hague, which upheld West Germany's claim to the North Sea Continental Shelf, Denmark, the Netherlands, and West Ger-

many agreed to new demarcation lines effective November 7, 1972. The new agreement increased the size of the West German Continental Shelf from about 14,700 square miles to about 21,800 square miles. Most of the newly acquired area, in addition to much of the uncontested West Germany Continental Shelf area, will be explored by the North Sea Consortium, a group comprised of both domestic and foreign companies.

Several companies, including United States, French, and West German interests, plan to construct 30 more caverns for underground storage of 70 million barrels of oil south of Emden to comply with future stockpiling requirements.

Greece.—The Government awarded licenses to two local entrepreneurs to build new refining facilities. One license was for expanding the throughput capacity at the existing refinery at Eleusis (near Athens) by 70,000 barrels per day. The unit is to be completed by 1974. The other license was for a new refinery to be built near Pachi near Megara, also in the Athens area. It will have a capacity of 70,000 barrels per day and is to be completed by the end of 1974. Under a unique arrangement, the Government has the right to 50% of net profits or, in the absence of adequate profit, to $0.40 per ton of crude oil refined.

Greenland.—Oil concession grants were further delayed, and drilling is not expected until 1974. However, the Danish Ministry for Greenland distributed a concession draft to interested concerns in October 1972, and licenses were expected to be issued in 1973. Interest centers on the offshore area west of Greenland, near the promising northeastern Canadian areas, and concessions are to be granted initially in the southern and central zones, up to the 72d parallel.

Guatemala.—After years of unsuccessful search, Guatemala's first discovery well was completed in 1972. The well was drilled in the La Tortugas Valley of Northeastern Guatemala by Recursos del Norte, a subsidiary of Basic Resources International of Canada. It flowed at a rate of 1,300 barrels per day. A second well flowed at 1,840 barrels per day. The company plans two more wells in 1973.

India.—A major policy shift took place in India which affected oil production and exploration. Because of the apparent failure of the Government-operated Oil and Gas Commission to find more oil, it became evident that the continued nearly complete reliance on Soviet technology had to be terminated. India is expected to grant offshore drilling contracts to Western companies covering an area of about 100,000 square miles. Production in 1972 averaged about 155,700 barrels per day, 9% above the 1971 level. The production was shared nearly equally between the States of Assam and Gujarat.

Indonesia.—Annual crude oil production in Indonesia exceeded 1 million barrels per day for the first time in 1972. At yearend production rates were approaching 1.2 million barrels per day. The increase came from two new offshore fields as well as from established onshore fields in Sumatra. Japan, the United States, and Trinidad took the bulk of the increased crude oil exports. It was announced in 1972 that since 1966, when Indonesia adopted the production-sharing contract system, output has doubled, more than $1 billion has been invested by foreign concerns, and about 40 contracts have been signed, mostly by U.S. companies, covering more than 3 million square miles on onshore and offshore areas, and that since 1968, 43 new oil and gas accumulations have been found.

The Petromer Trend group of companies found oil on the Vogelkop Peninsula of West Irian. The well flowed 43° API gravity, low-sulfur crude oil at a rate of 1,680 barrels per day. This was the first discovery in the Vogelkop area since 1954. In addition, initial production offshore Kalimantan (Indonesian Borneo) began in late 1972 when the Attaka oilfield came onstream. When fully developed by late 1973 it is expected to produce 100,000 barrels per day. Two other offshore fields were also producing off Java.

Iran.—In June, the Shah of Iran announced a new long-term relationship between the Government and the large international consortium that operates in Iran. Reportedly, the consortium would turn over the huge Abadan refinery to the National Iranian Oil Co. (NIOC) and in turn build a new refinery on Kharg Island. Also included was the transfer to NIOC of substantial amounts of crude for its own use of distribution. At yearend, a formal

agreement covering the new relationship had not been reached.

The only discovery announced during 1972 was made by Bushehr Petroleum Co., owned jointly by Amerada Hess Corp. and NIOC. The discovery well tested at 2,000 to 3,000 barrels per day of 14° API gravity oil on a tract adjoining the Fereidoon field near the center of the Persian Gulf. Lavan Petroleum Co. placed in operation two 100,000-gallon-per-day seawater-desalting plants to improve crude oil recovery from its offshore Sassan field.

Completion of two tanker-loading berths increased the loading capacity at the Kharg Island terminal in November 1972 by 60,000 tons per hour (about 440,000 barrels per hour) and doubled the total capacity of the terminal. One of the new berths can accommodate tankers up to 500,000 deadweight tons and the other 300,000 deadweight tons. With the addition of three large tanks, storage capacity at Kharg Island totaled 14 million barrels.

Important projects undertaken were a 40,000-barrel-per-day refinery at Fars, a 20,000-barrel-per-day refinery on Lavan Island, expansion of the Kermanshah refinery by 15,000 barrels per day, and several large liquefied natural gas (LNG) projects involving Japanese and U.S. partners. In addition, NIOC announced that the capacity of the Tehran refinery would be increased by 100,000 barrels per day to 190,000 barrels per day at a cost of $100 million to meet the increasing demand of central and northern Iran.

Abroad, NIOC agreed to participate in the construction of refineries in Belgium and Greece and to supply crude oil to the 50,000-barrel-per-day refinery at Sasolburg in the Republic of South Africa.

Also, NIOC was to establish a 60,000-barrel-per-day refinery in the Philippines in which it will have a 50% interest and will also provide its crude oil requirements. NIOC already shares in the ownership of two other overseas refineries and has agreed to participate in another.

Iraq.—On June 1 the Iraqi Government nationalized the holdings of Iraq Petroleum Co. (IPC). The company is owned by British, Dutch, French, U.S. and other interests. The affiliates of IPC—Mosul Petroleum Co. Ltd. with a small amount of production in the north and Basrah Petroleum Co. with substantial production in the south—were not affected. Principal among the properties seized were the Kirkuk oilfield (1,117,000 barrels per day in 1971) and the pipelines to the Syrian border which carry crude oil to Mediterranean terminals. At the time of nationalization, the Government promised the French shareholder special terms.

Production from North Rumaila with technical assistance from the U.S.S.R. showed a sharp increase to about 100,000 barrels per day. In late 1972 Soviet officials and the Iraq National Oil Co. (INOC) were considering plans to increase the production to 360,000 barrels per day.

Iraq signed an important service contract agreement with Brazil's state-owned company, Petróleo Brasileiro, S.A. (PETROBRÁS) covering three exploratory blocks totaling 7,900 square kilometers. The agreement called for PETROBRÁS to provide technical and marketing expertise to INOC in return for production offtake privileges.

Ireland.—The U.S. firm Marathon Oil Co. holds leases on nearly three-fourths of Ireland's land area and extensive areas off the south and west coasts. A small number of dry wells have been drilled on land. In July an offshore well tested gas from two formations; however, the discovery failed to confirm a field of commercial size. At yearend Marathon was awaiting government approval to drill its fifth well in the Celtic Sea.

Israel.—Throughput of the Eilat-Ashqelon pipeline during 1972 reached 25.5 million tons (about 510,000 barrels per day), a 31% increase over the 19 million tons carried in 1971. The increase was made possible by the addition of two pump stations, increased storage capacity, and the installation of a fourth loading terminal at Ashqelon. Annual capacity of the line is now 30 million tons and as originally planned should eventually reach 60 million tons per year. Production from Heletz field in 1972 dropped 21% from 1971 to only 47,365 tons and is expected to stop entirely within a year or two. Production from Abu Rudeis and other oilfields on the Sinai Peninsula captured from the Arab Republic of Egypt was reported at 5.25 million tons (about 105,000 barrels per day) in 1972 and was expected to reach 6 million tons in 1973. Reportedly, as much as 3 million tons of Sinai crude oil was exported.

Recent press reports indicate that of the 30 million tons of crude expected to transit the Eilat-Ashqelon pipeline in 1973, about 6 million tons will be destined for use at the Haifa refinery and 1.5 million for the new Ashdod refinery which will begin operating in early 1973.

Italy.—Exploration efforts have been directed offshore in the Adriatic Sea with renewed exploration expected following the 1972 issuance of 21 licenses covering about 1.2 million acres in the Sicilian Channel. A three-well program was planned for drilling beginning during 1972 in water 500 feet deep near the offshore Adriatic Sea boundary with Yugoslavia. At least one company performed seismic surveys in offshore areas of the Tyrrhenian Sea. Most of the country's onshore plans center on natural gas, as crude oil production, all in Sicily, was down to 21,000 barrels per day. The Italian state company, Ente Nazionale Idrocarburi (ENI) continued to work toward strong exploration in foreign regions, especially North Africa and the Middle East.

Jamaica.—The Government reached an agreement in principal with an Italian group in the construction of a new 250,000-barrel-per-day refinery. The plant, like others in the Caribbean area, would serve mainly the United States east coast market.

Japan.—A preliminary agreement was reached between Japan and the Republic of Korea regarding a joint operation in the exploration and development in the offshore Sea of Japan area claimed by both countries. Drilling is expected to commence in the near future.

A strike by Japanese seamen lasted 90 days, the longest in the history of Japan's labor unions. The strike idled 145 tankers totaling 14.5 million deadweight tons and affected the crude oil output of several countries, particularly Abu Dhabi whose principal crude oil exports go to Japan.

With the completion in October of one new refinery and the expansion of nine other plants, Japan's refinery capacity rose by nearly 500,000 barrels per day to a total of 4.7 million barrels per day, the world's third largest after the United States and the U.S.S.R.

The world's largest tanker, the 477,000-deadweight-ton, *Globtik Tokyo* was launched at Hiroshima during October 1972. It is to be completed in early 1973.

Following a favorable report from the Ministry of Health, official permission for petroleum-protein production planning was given. The first two commercial projects will be the 60,000-ton-per-year plant at Gamagori (Shizuoka Prefecture), to be completed in 1974, with provisions for doubling capacity by 1976, and another 60,000-ton-per-year plant at Takasago (Hyogo Prefecture), to be completed in 1973.

Kuwait.—The Government requested the country's major crude oil producing company, Kuwait Oil Co., Ltd. (KOC), owned jointly by British and U.S. firms, to limit oil production to about 2.9 million barrels per day. As the second country, following Libya, to limit production, Kuwait seeks to conserve oil in favor of future higher prices.

Exploration in southwestern Kuwait by KOC resulted in finding a well that tested nearly 2,000 barrels per day. The Spanish company, Hispanica de Petroleos, S. A. (Hispanoil) found oil after drilling two dry wells.

Kuwait Oil Tanker Co., the largest tanker company in the Middle East, purchased two tankers and contracted for a 1973 delivery of a 324,000-deadweight-ton tanker which will bring its total capacity to 1,114,000 deadweight tons.

Libya.—Ente Nacionale Idrocarburi (ENI), the Italian State oil company was finally permitted to export crude from its first Libyan oilfield (Abu Tiffel) after months of negotiations with the Libyan Government. Under the agreement ENI had to forfeit 50% of its ownership of the field to the Government. Reportedly, Libya is to pay ENI for one-half of its cost to find and develop the field. Initial production of 200,000 barrels per day was piped to Zuetina terminal. Production is expected to rise to 300,000 barrels per day.

Less than a week after the agreement with ENI, the Government made a similar demand of Nelson Bunker Hunt's share of the big Sarir field in the Concession 65. In this demand, however, Libya claims half of Hunt's profits from the field, retroactive to December 1971 when the Government seized the half of the field owned by British Petroleum Co., Ltd. (BP).

Malaysia.—Near the end of 1972 the Malaysian Government announced plans to enter production-sharing contracts with oil

companies rather than continue the present system of concessions. Present concessions will be respected. Prospects for a substantial oilfield offshore Sabah were encouraging, following the Government announcement that three out of five wells drilled 53 miles northeast of Kota Kinabalu (formerly Jesselton) in the South China Sea have tested at rates of more than 2,000 barrels per day. The concessionaire, an Exxon, Inc., subsidiary, planned to build a fixed drilling platform in the area and rapid development was indicated for Sabah's first oilfield. After 62 years of operation Sarawak Shell Berhad closed its Miri oilfield. It was producing less than 400 barrels per day from 70 of its 624 wells.

Mexico.—Although production increased 4% during 1972, output fell short of sales, which increased 8%. Petróleos Mexicanos (Pemex) had two major discoveries, one offshore and the other onshore, and confirmed the existence of larger quantities of oil than previously estimated in the offshore Arenque field. During the first 8 months of 1972, a total of 278 wells were drilled, of which 165 were productive.

Pemex planned to increase refining capacity by one-third to 930,000 barrels per day in 1976 and to increase pipeline facilities, especially to the interior and from offshore terminal facilities.

Netherlands.—In a third round of exploration license allocations in the Dutch sector of the North Sea, 26 blocks were granted in mid-1972 to 16 companies or groups. Most of the licenses were granted north of the 54th parallel where the new offshore boundary with the West German sector was delineated. All exploration in 1972 resulted in either dry wells or natural gas discoveries. Crude oil output declined 7% to about 30,000 barrels per day.

The country's refining capacity increased a substantial 15% to 1.8 million barrels per day. Plans were to raise this to 2.2 million barrels per day by 1975–76. Included were two of the world's largest refineries, the 540,000-barrel-per-day Pernis plant owned by the Royal Dutch/Shell group of companies and the Rotterdam plant of BP, which will reach 460,000 barrels per day in 1973.

Nigeria.—Major new discoveries announced during the year included the large 18,500-barrel-per-day find 30 miles offshore from Bonny by Occidental Petroleum Corp., in a joint venture with the Nigerian National Oil Corp. The well, which tested 35° API gravity crude from two zones, is the biggest Nigerian discovery. The joint operation of Texaco, Inc., and Chevron Oil Co. made two promising offshore discoveries during the year. The Anyala find 27 miles offshore tested over 5,000 barrels per day from two zones, and the Middleton discovery tested almost 7,000 barrels per day from three zones.

Gulf Oil Corp.'s new Abiteve field, its first onshore field (located 7 miles from the Escravos terminal), came onstream in October and was expected to reach 15,000 barrels per day by yearend.

At yearend total Nigerian production was averaging about 1.9 million barrels per day. The United States and offshore refineries in the Virgin Islands and the Bahamas, were the destination of 27% of Nigeria's crude oil exports. The production growth rate was expected to slow down slightly in 1973 as several small 1970–71 discoveries were expected to come onstream.

Norway.—During the first full year of crude oil production, output averaged about 33,000 barrels per day compared with 5,700 barrels per day in 1971. Production began in June of that year from the offshore Ekofisk field 140 miles west of Stavanger. A giant concrete storage tank (1 million barrels) under construction at Stavanger was scheduled to be moved to the producing area in 1973, and when completed the field should be able to produce 100,000 barrels per day. Phillips Petroleum Co., operator of Ekofisk, concluded an agreement with a U.S. firm for laying a pipeline from Ekofisk field to Teeside on the Yorkshire coast of the United Kingdom at a cost of about $200 million. The contract was subject to final approval by the Storting, Norway's Parliament.

Preliminary estimates place Norway's offshore production potential, based on fields discovered through 1972, at about 1 million barrels per day.

During December 1972 the new Norwegian Government by royal decree stiffened the terms for future offshore exploration agreements by increasing royalties and rentals and by providing for state participation in production without exploration risk.

Oman.—To counter declining production rates, Petroleum Development (Oman), Ltd., launched an exploration program on its onshore agreement area and also placed in operation a water injection program for its Yibal field. The exploration resulted in the discovery of oil in three small structures in the Ghaba area about 60 miles south of the present producing fields.

Peru.—Petróleos del Perú, the state oil company, announced a second discovery in the Amazon basin area of northern Peru. Details of the well were not given, but the first discovery tested 3,000 barrels per day. The location of the new find is remote, and a trans-Andean pipeline will be required to carry the crude to the Pacific coast. However, officials have indicated that a line would be built when reserves are sufficient to sustain a production of 100,000 barrels per day. Earlier, a partnership of two U.S. oil companies discovered oil offshore from Tumbes in the extreme north of Peru. The well yielded a crude having a 39° API gravity from two intervals, one testing more than 1,000 barrels per day.

Philippines.—On September 21, 1972, President Marcos invoked his constitutional powers to assume responsibility for the country's petroleum affairs. This and subsequent legislation made it possible for foreign investors to enter into exploration in the Philippines. The Petroleum Act of 1949 had discouraged foreign investment. As a result of the new legislation, a number of foreign companies responded with proposals following a campaign to encourage exploration by foreign firms. On December 31, 1972, several U.S. petroleum companies and the Philippine Government signed the country's first oil exploration service contract. The area of new interest is off Palawan Island in the Sulu Sea toward Sabah. Exploration on land over many years, carried out by foreign companies in partnership with local interests, has not yielded any commercial oil.

Puerto Rico.—Crown Central Petroleum Corp. announced a project to build a refinery near the port of Guayama which will produce up to 27,000 barrels per day of naphtha and 23,000 barrels per day of fuel oil. It is to be completed in 1975.

Romania.—With production from its older fields on the decline, Romania has entered a stage of diversified research and exploration. Geophysical exploration was being carried out in areas bypassed in the past, secondary recovery methods were being employed in formerly abandoned fields, and the Government has contracted with a U.S. firm to deliver a $3.2 million offshore drilling platform. In addition research was being conducted in the underground combustion of oil shale.

Saudi Arabia.—Saudi Arabia strengthened its position as the world's third largest producer of crude oil. Production rates of about 7 million barrels per day at the close of 1972 suggest that within a few years it may overtake both the U.S.S.R. and the United States. It is expected that production levels will reach 9 million barrels per day by mid-1974.

The expansion program which started in 1971 continued through 1972. Nineteen drilling rigs were in operation at yearend, and despite accelerated production rates, crude oil proved reserves increased by 5 billion barrels, about twice current annual production. Including Saudi Arabia's share of the Kuwait-Saudi Arabia Partitioned Zone, the Government estimated reserves at 157 billion barrels.

Three offshore sea-island tanker loading facilities at Ras Tanura are to be joined by a fourth in early 1973, making the complex the world's largest offshore loading facility. Each of the two berths at the new sea island will have a loading capacity of 280,000 barrels per hour and can handle simultaneously two tankers of from 150,000 to 500,000 deadweight tons. A new loading port is planned for late 1974 which will double the export capacity of the offshore complex to over 10 million barrels per day.

Spain.—The Government approved a variety of offshore and onshore leases during the year, but there was little drilling activity. The several wells drilled were dry.

With surplus refining capacity already available and more anticipated, Spain is in an ideal position to become a major exporter of refined petroleum products. Geographically, the country is located astride major crude oil tanker routes originating in the Mediterranean Sea and the Persian Gulf. Projected refinery surplus is expected to exceed 350,000 barrels per day by 1975.

Syrian Arab Republic.—Immediately following the Iraqi seizure of IPC holdings in Iraq, the Syrian Government nationalized

the pipelines that carry crude oil exports from northern Iraq to Mediterranean loading terminals. Exports from Banias, Syria, which fell to a low of 200,000 barrels per day in July, increased rapidly to an average of 744,000 barrels per day in October. At yearend a dispute between Iraq and Syria over transit fees was taking place. Syria was claiming double the fees previously paid by IPC plus a flat annual payment to cover maintenance costs.

Taiwan.—The Government company, Chinese Petroleum Corp. (CPC), continued seismic and gravimetric surveying throughout Taiwan. There were also seismic studies by two companies covering offshore areas. Exploration drilling resulted in one successful oil well, one successful gas well, and four dry wells. Development well drilling resulted in two gas producers and five dry wells.

A U.S. firm concluded a contract with CPC covering the exploration and development of 7 million acres on Taiwan's Continental Shelf in the East China Sea. The triangular area is southwest of, and outside, the area claimed by the Republic of Korea and Japan. It is 110 miles from the Chinese coast, opposite the mouth of the Yangtze River.

Trinidad and Tobago.—Crude oil production continued to decline until August when the offshore Teak (formerly Radix) and Galeota fields came into production. When these two and a third offshore field are brought into full production, it is expected that production will reach 270,000 barrels per day, a national record.

Tunisia.—The two oilfields found in 1971, Sidi el Itayem west of Sfax and the offshore Ashtart field, were put into production at rates of 10,000 and 30,000 barrels per day, respectively. A new field, Sidi Behara with an expected capacity of 12,000 barrels per day, was found 6 miles west of Sidi el Itayem field. The offshore field is being operated from a production platform and a unique mooring buoy which enables tankers to load directly from floating storage tanks. Because of more stringent terms in other North African countries, there has been renewed interest in Tunisian exploration, especially by French and Italian companies. By the end of 1972 much of the onshore area and nearly all of the offshore Continental Shelf was under concession.

Turkey.—Discoveries in 1972 included a field in the Diyarbakir area which was expected to produce 4,000 barrels per day and two others in eastern Turkey which together produced 1,800 barrels per day by yearend. Significantly, two concessions were awarded, one in Western Turkey near Istanbul and the other in the southeast near the Iraqi border. Two U.S. firms announced plans for seismic exploration of nearly 1 million offshore acres in the Marmara Sea from the Bosporus to the Dardanelles. After many years of planning and construction, the Izmir refinery, built with U.S.S.R. assistance, came onstream with a capacity of 66,000 barrels per day.

U.S.S.R.—It was reported at yearend that an agreement in principal was in sight with United States and Japanese interests for the development of some of Siberia's main natural gas resources. The proposed United States-Japanese contribution in development work will count as advance payment for gas shipments to the United States and Japan over 25 years at a combined rate of up to 5 billion cubic feet per day. Involved will be Tyumen and Yakutsk gasfields, and a 1,800-mile, 56-inch pipeline to Murmansk where a liquefaction plant will process Tyumen gas. Yakutsk gas will be shipped via a 2,500-mile, 56-inch pipeline to the Pacific port of Nakhodka. The whole arrangement may involve an expenditure of $50 billion, making it one of the most expensive schemes ever undertaken.

United Arab Emirates.—Production in Abu Dhabi (one of the two emirates having crude production) continued to rise, but because of the Japanese seamen's strike during midyear, the increased rate was lower than those of recent years. An estimated one-third of the production is exported to Japan. Production facilities were being expanded at the onshore fields of Bu Hasa and Asab and the offshore Mubarraz field. With production from the offshore fields of Umm Shaif and Zakum expanded during 1972, it is expected that by 1974–75 total output from Abu Dhabi will reach 2 million barrels daily. A decision on a development scheme for the offshore Bunduq field was pending at yearend.

Negotiations with a West German consortium called Deminex involving the purchase of a share of BP's holdings in Abu Dhabi collapsed. However, at yearend BP was negotiating with a Japanese consor-

tium with other oil interests in Abu Dhabi. In two separate offers, the Government invited bids for offshore exploration areas totaling 6,800 square miles.

Production in Dubai also increased to more than 150,000 barrels per day. Major development was the installation of two large inverted-funnel, bottomless storage tanks to join a similar tank at the offshore Fateh oilfield. Each tank has a 500,000-barrel capacity. A single-buoy mooring capable of handling 300,000-deadweight-ton tankers was also built, making two of that size at Fateh. Dubai production is expected to reach 300,000 barrels per day during 1973.

A promising discovery has been made off the island of Abu Musa in Sharjah waters by Buttes Gas and Oil Co., operator for a group of U.S. companies. The well, in 200 feet of water about 9 miles east of the island, tested 13,955 barrels per day of low-sulfur, 36° API gravity crude oil. Occidental Oil Co., offshore concessionaire for Umm al Quwain, disputes rights in the area and has taken legal action against the group. The dispute stems from action taken by Sharjah in 1970 declaring the width of its territorial waters to be 12 miles instead of 3 miles.

United Kingdom.—Thirty-one exploration wells were drilled in British North Sea waters in 1972, 26 in the northern part and the remainder in the south. In addition 32 development wells were drilled in the British North Sea; all except two were in southern waters. The drilling resulted in several new field finds (Cormorant, Piper, and Beryl), the confirmation of two major fields (Auk and Brent), and the discovery of several natural-gas-condensate fields. Plans are that the large Forties and Auk oilfields will come onstream in 1974 and the Brent field in late 1975.

In March, 246 Fourth Round blocks covering about 23,200 square miles were awarded to 66 companies or combines. During the initial 6 years of these Fourth Round leases, 224 wells are to be drilled west of the Shetland Islands including, for the first time, parts of the Celtic Sea.

Venezuela.—Effective January 1, 1972, tax reference prices were increased an average $0.32 per barrel for crude oil and $0.35 per barrel for refined products. The rising tax-paid cost of Venezuelan crude and declining tanker fees made Middle Eastern crudes more competitive in Venezuela's principal world markets and helped reduce 1972 exports of crude oil. A 9% decline in crude oil production followed. To safeguard its income, the Government applied rules that severely penalize companies for decreasing production below a stipulated amount. In October, the tax reference prices for crude and products applicable to exports in 1973 were officially published effective January 1, 1973. The increases averaged between $0.12 per barrel for crude oil and $0.17 per barrel for refined products. These more recent increases portend future marketing difficulties for Venezuelan petroleum.

Creole Petroleum Corp., a subsidiary of Exxon, Inc., finished a major expansion of its Amuay refinery, raising the capacity to 630,000 barrels per day. Included was an increase from 200,000 to 300,000 barrels per day of desulfurization capacity. Amuay refinery is now the world's largest and represents a total investment of $370 million.

Yugoslavia.—Benicanci, one of the country's most promising fields, came onstream in October 1972. Some 80 wells were drilled in the field through 1972. Production targets are 10,000 barrels per day by the end of 1973. A pipeline was under construction to the Sisak refinery where throughput capacity was increased by 40,000 barrels per day. A second field, Kelebija, which extends across the Hungarian border, began production in early 1972. Stepout wells were drilled at the Velebit oilfield and new gas horizons were discovered at Tilva. In 1975, production from these three and others in the Voivodina is planned at about 20,000 barrels of oil per day and 180 million cubic feet of gas per day.

At yearend, Yugoslavia's lone offshore rig (leased from a French company) was being refitted following the completion of four dry holes off Dugi Otok. Its next assignment will be in the western part of Yugoslavia's Adriatic waters.

Zaire.—In April the Gulf Oil Co. drilled a fourth confirmation well near its 1971 offshore discovery; however, the company was uncertain of the field's promise. Onshore two discoveries were undergoing tests by Gulf to determine if they could be produced commercially. A consortium of foreign oil companies operated by the Belgian firm Petrofina, Inc., found small quantities of oil and gas near the coastal town of Maunda.

Table 2.—Supply, demand, and stocks of all oils in the United States

(Thousand barrels)

Item	1968	1969	1970	1971	1972 p
Domestic production:					
Crude oil	3,169,586	3,203,996	3,350,666	3,296,612	3,293,399
Lease condensate	159,456	167,755	166,784	157,302	161,969
Natural gas plant liquids	550,311	580,241	605,916	617,815	638,216
Imports:					
Crude oil [1]	472,323	514,114	483,293	613,417	811,135
Unfinished oils [1]	29,350	38,766	39,261	45,193	45,705
Plant condensate			2,258	13,321	31,428
Refined products	537,696	602,671	723,250	760,949	846,988
Other hydrocarbons and hydrogen refinery input	3,377	4,213	6,238	6,074	10,118
Total new supply	4,922,099	5,111,756	5,377,666	5,510,683	5,838,958
Unaccounted for crude oil [2]	+7,138	−2,561	−7,721	+14,823	+10,201
Processing gain	116,691	122,412	131,052	139,433	142,161
Total supply	5,045,928	5,231,607	5,500,997	5,664,939	5,991,320
Change in stocks of all oil	+55,461	−17,449	+37,738	+26,086	−84,968
Total disposition of primary supply	4,990,467	5,249,056	5,463,259	5,638,853	6,076,288
Exports: [3]					
Crude oil	1,802	1,436	4,991	503	187
Refined products	82,742	83,449	89,467	81,342	81,281
Crude losses	4,134	4,241	4,328	4,448	4,641
Domestic demand for products:					
Gasoline:					
Motor gasoline	1,925,376	2,016,995	2,111,349	2,195,267	2,333,777
Aviation gasoline	30,624	25,551	19,903	17,892	16,628
Total gasoline	1,956,000	2,042,546	2,131,252	2,213,159	2,350,405
Jet fuel:					
Naphtha-type	126,601	108,518	90,927	94,732	88,495
Kerosine-type	222,777	253,213	262,051	273,991	293,995
Total jet fuel	349,378	361,731	352,978	368,723	382,490
Ethane (including ethylene)	55,152	72,216	83,757	87,744	106,201
Liquefied gases	330,589	373,410	363,059	369,008	413,649
Kerosine	102,934	100,369	95,974	90,917	85,854
Distillate fuel oil	874,539	900,262	927,211	971,316	1,066,049
Residual fuel oil	668,239	721,924	804,288	838,045	925,647
Petrochemical feedstocks [4]	92,936	94,648	101,183	110,525	123,867
Special naphthas	27,007	29,598	31,390	29,762	31,888
Lubricants	48,467	48,782	49,693	49,321	52,801
Wax	4,360	4,588	4,607	5,248	5,410
Coke	76,319	80,830	77,215	79,897	88,319
Asphalt	141,151	143,290	153,477	158,526	163,788
Road oil	7,080	8,756	9,641	8,487	7,538
Still gas for fuel	149,796	160,363	163,905	156,967	170,993
Miscellaneous products	17,842	16,617	14,843	14,915	15,280
Total domestic demand	4,901,789	5,159,930	5,364,473	5,552,560	5,990,179
Stocks of all oils:					
Crude oil and lease condensate	272,193	265,227	276,367	259,648	246,395
Unfinished oils	93,399	97,819	98,989	100,574	94,761
Natural gasoline and plant condensate [5]	5,466	5,704	7,046	6,176	6,075
Refined products	628,514	611,373	635,459	677,549	611,748
Total	999,572	980,123	1,017,861	1,043,947	958,979

p Preliminary.
[1] Reported to the Bureau of Mines. Imports of crude oil include some Athabasca hydrocarbons.
[2] Represents the difference between supply and indicated demand for crude petroleum.
[3] U.S. Department of Commerce data.
[4] Produced at petroleum refineries. Demands for ethane and liquefied gases used for petroleum feedstocks are excluded. Demand data for these products for petrochemical feedstocks use are included under the items "Ethane" and "Liquefied gases."
[5] Includes isopentane.

Table 3.—Supply and demand of all oils in the United States, by month

(Thousand barrels)

1971	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
New supply:													
Domestic production:													
Crude petroleum	285,104	259,303	288,790	279,595	285,458	275,261	280,394	279,021	262,279	271,662	261,260	268,485	3,296,612
Lease condensate	14,201	13,101	14,019	13,473	13,522	12,856	12,760	12,709	11,778	12,370	12,910	13,603	157,302
Natural gas plant liquids	52,275	48,170	52,356	50,774	52,330	49,801	51,213	52,265	50,412	52,102	50,659	55,458	617,815
Imports:													
Crude petroleum [1]	34,772	37,655	43,235	45,207	46,540	50,337	54,768	58,755	57,012	59,617	59,557	65,962	613,417
Unfinished oils	3,019	2,591	2,674	3,268	3,020	3,527	4,420	4,686	4,367	4,358	3,884	5,379	45,193
Plant condensate	203	368	514	502	557	1,576	1,594	1,528	1,857	1,638	1,126	1,858	13,321
Refined products	71,664	65,110	72,532	58,623	58,811	57,568	58,981	53,668	57,538	56,312	63,800	86,342	760,949
Other hydrocarbons and hydrogen refinery input	448	343	449	478	430	532	552	443	439	732	563	665	6,074
Total new supply	461,686	426,641	474,569	451,920	460,668	451,458	464,682	463,075	445,682	458,791	453,759	497,752	5,510,683
Crude petroleum unaccounted for [2]	+5,053	+31	+338	+3,287	+974	+1,985	+1,901	+2,048	+1,358	−979	+336	−1,509	+14,823
Processing gain	12,793	10,881	11,252	12,753	9,939	10,655	11,183	12,975	11,792	12,010	10,728	12,472	139,433
Total supply	479,532	437,553	486,159	467,960	471,581	464,098	477,766	478,098	458,832	469,822	464,823	508,715	5,664,939
Change in stocks, all oils [3]	−37,434	−36,587	−9,435	+11,313	+40,247	+17,557	+32,450	+29,699	+17,817	+13,942	−22,226	−31,257	+26,086
Total disposition of primary supply	516,966	474,140	495,594	456,647	431,334	446,541	445,316	448,399	441,015	455,880	487,049	539,972	5,638,853
Exports: [4]													
Crude oil	--	2	1	313	8	--	--	--	143	36	--	--	503
Refined products	6,139	6,731	7,776	8,111	6,978	7,194	5,483	6,681	5,693	5,846	8,069	6,641	81,342
Crude losses	375	342	375	366	363	375	385	382	364	376	364	381	4,448
Domestic demand for products:													
Gasoline:													
Motor gasoline	163,169	153,370	181,002	185,942	182,971	193,550	199,393	195,190	182,050	187,028	183,425	188,177	2,195,267
Aviation gasoline	1,423	1,197	1,607	1,695	1,527	1,527	1,576	1,815	1,576	1,610	1,182	1,157	17,892
Total gasoline	164,592	154,567	182,609	187,637	184,498	195,077	200,969	197,005	183,626	188,638	184,607	189,334	2,213,159
Jet fuel:													
Naphtha type	7,070	7,159	7,650	7,640	7,616	8,102	7,608	8,445	8,726	8,141	8,206	8,369	94,732
Kerosine type	22,248	22,429	23,094	21,097	21,770	23,050	22,843	23,564	21,558	24,078	22,272	25,988	273,991
Total jet fuel	29,318	29,588	30,744	28,737	29,386	31,152	30,451	32,009	30,284	32,219	30,478	34,357	368,723
Ethane (including ethylene)	6,975	6,536	6,855	6,865	7,153	7,362	7,567	7,738	7,373	7,568	7,635	8,117	87,744
Liquefied gases:													
LRG [5] for fuel use	7,791	7,575	7,545	6,980	6,449	6,986	7,527	7,588	6,270	7,118	6,956	8,304	87,089
LRG [5] for chemical use	2,247	2,351	2,663	2,684	2,659	2,792	2,998	2,676	2,595	2,781	2,869	2,837	32,152
LPG [6] for fuel and chemical use	34,560	27,267	21,152	14,800	12,900	12,174	11,480	15,459	18,800	21,917	26,743	32,515	249,767
Total liquefied gases	44,598	37,193	31,360	24,464	22,008	21,952	22,005	25,723	27,665	31,816	36,568	43,656	369,008
Kerosine	13,366	12,671	8,761	6,339	3,876	4,520	4,378	4,475	5,868	6,800	8,536	11,327	90,917
Distillate fuel oil	123,725	107,336	99,135	79,050	65,692	60,093	54,376	56,100	61,164	65,610	85,436	113,599	971,316
Residual fuel oil	86,464	80,728	82,564	66,857	60,022	59,504	59,590	55,732	62,177	59,835	77,162	87,410	838,045

See footnotes at end of table.

Table 3.—Supply and demand of all oils in the United States, by month—Continued

(Thousand barrels)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Domestic demand for products—Continued													
Petrochemical feedstocks:[7]													
Still gas	1,135	1,575	1,242	1,433	1,131	1,372	1,509	1,966	1,688	1,158	984	965	16,158
Naphtha—400°	5,005	4,313	5,069	4,673	4,713	4,912	4,191	4,930	4,805	5,003	4,277	4,930	56,821
Other	2,237	2,324	2,184	3,173	3,469	2,780	3,452	2,839	3,698	3,550	3,665	4,175	37,546
Total petrochemical feedstocks	8,377	8,212	8,495	9,279	9,313	9,064	9,152	9,735	10,191	9,711	8,926	10,070	110,525
Special naphthas	2,387	2,384	2,946	2,150	2,502	2,382	2,495	2,269	2,693	2,533	2,407	2,614	29,762
Lubricants	3,574	3,668	4,125	4,432	3,985	4,777	4,571	4,347	3,610	4,564	3,811	3,857	49,321
Wax	315	390	517	456	455	473	348	478	483	420	514	399	5,248
Coke	6,660	6,147	6,629	6,824	5,979	6,743	7,288	7,332	5,558	7,986	6,157	6,594	79,897
Asphalt	4,829	4,862	8,083	10,363	14,045	19,904	19,440	21,884	19,283	17,159	12,246	6,428	158,526
Road oil	122	81	146	300	692	1,268	1,479	1,693	1,174	777	499	256	8,487
Still gas	13,616	11,433	13,129	12,664	13,326	13,505	14,002	13,639	12,748	12,860	12,464	13,581	156,967
Miscellaneous products	1,534	1,269	1,344	1,440	1,053	1,196	1,337	1,177	918	1,126	1,170	1,351	14,915
Total domestic demand	510,452	467,065	487,442	447,857	423,985	438,972	439,448	441,336	434,815	449,622	478,616	532,950	5,552,560
Stocks all oils:													
Crude oil and lease condensate	269,806	266,864	267,246	271,445	284,320	279,337	273,235	272,417	269,771	265,899	265,552	259,648	259,648
Unfinished oils	94,379	90,562	90,492	98,636	100,648	102,891	103,625	100,322	99,378	103,355	103,921	100,574	100,574
Natural gasoline and plant condensate[8]	6,805	6,609	6,258	6,791	6,869	6,585	6,755	6,668	6,527	6,442	6,340	6,176	6,176
Refined products	609,437	579,805	570,409	568,846	594,128	614,709	652,357	686,264	707,812	721,734	699,391	677,549	677,549
Total	980,427	943,840	934,405	945,718	985,965	1,003,522	1,035,972	1,065,671	1,083,488	1,097,430	1,075,204	1,043,947	1,043,947
1972 [p]													
New supply:													
Domestic production:													
Crude petroleum	268,442	257,325	279,358	272,039	284,217	272,573	281,082	280,685	272,575	280,491	269,079	275,533	3,293,399
Lease condensate	14,101	13,424	13,953	13,350	13,826	13,073	13,303	13,273	12,674	13,438	13,714	13,840	161,969
Natural gas plant liquids	52,840	50,649	54,814	53,073	53,842	52,028	53,668	53,896	52,533	54,825	52,710	53,338	638,216
Imports:													
Crude petroleum [1]	63,419	60,344	64,066	60,129	66,958	62,544	67,635	65,463	70,909	78,003	68,978	82,687	811,135
Unfinished oils	5,520	4,189	3,234	3,542	2,495	3,011	3,339	3,600	3,956	4,214	3,846	4,759	45,705
Plant condensate	1,748	1,758	2,196	1,782	2,701	2,414	2,770	3,309	3,039	2,963	3,365	3,383	31,428
Refined products	77,116	74,218	79,020	63,616	63,244	66,035	62,651	65,748	63,269	73,636	72,257	86,178	846,988
Other hydrocarbons and hydrogen refinery input	578	614	883	808	732	808	862	1,012	757	1,006	1,167	891	10,118
Total new supply	483,764	462,521	497,524	468,339	488,015	472,486	485,310	486,986	479,712	508,576	485,116	520,609	5,838,958
Crude petroleum unaccounted for [2]	−831	+853	+963	−1,387	+4,381	−315	+1,645	+2,852	+793	−214	+2,130	−669	+10,201
Processing gain	11,501	9,828	11,808	10,977	10,807	10,112	11,199	13,826	12,285	13,817	12,043	13,958	142,161
Total supply	494,434	473,202	510,295	477,929	503,203	482,283	498,154	503,664	492,790	522,179	499,289	533,898	5,991,320
Change in stocks, all oils [3]	−30,013	−49,831	−21,803	+4,334	+37,799	+7,199	+31,766	+1,909	+20,881	+4,434	−36,703	−54,940	−84,968
Total disposition of primary supply	524,447	523,033	532,098	473,595	465,404	475,084	466,388	501,755	471,909	517,745	535,992	588,838	6,076,288
Exports:[4]													
Crude oil	--	--	--	187	--	--	--	--	--	--	--	--	187
Refined products	5,245	4,741	8,998	7,173	6,176	6,309	6,384	7,175	6,894	7,286	7,430	7,470	81,281
Crude losses	383	359	382	366	386	385	399	399	393	398	386	405	4,641

Domestic demand for products:													
Gasoline:													
Motor gasoline	172,012	165,591	198,760	188,502	199,792	204,660	206,858	215,088	193,574	196,849	194,363	197,728	2,333,777
Aviation gasoline	1,186	1,270	1,634	1,458	1,379	1,449	1,485	1,499	1,351	1,676	1,135	1,106	16,628
Total gasoline	173,198	166,861	200,394	189,960	201,171	206,109	208,343	216,587	194,925	198,525	195,498	198,834	2,350,405
Jet fuel:													
Naphtha type	6,765	7,507	6,581	7,944	8,229	7,998	7,159	6,835	7,079	7,934	7,846	6,618	88,495
Kerosine type	24,871	25,584	24,664	21,619	22,755	26,901	23,828	22,497	23,958	28,375	23,643	25,300	293,995
Total jet fuel	31,636	33,091	31,245	29,563	30,984	34,899	30,987	29,332	31,037	36,309	31,489	31,918	382,490
Ethane (including ethylene)	8,387	8,200	9,019	8,111	8,473	8,377	9,196	9,246	9,060	9,787	8,889	9,456	106,201
Liquefied gases:													
LRG [5] for fuel use	7,501	7,575	6,680	5,935	6,197	6,968	6,548	6,796	6,674	6,979	7,554	8,612	84,019
LRG [5] for chemical use	2,988	2,831	3,013	2,994	3,356	3,227	3,284	3,173	2,867	2,939	2,796	3,275	36,743
LPG [6] for fuel and chemical use	35,251	32,199	25,199	18,395	12,847	14,871	15,709	19,339	18,721	27,578	33,796	38,982	292,887
Total liquefied gases	45,740	42,605	34,892	27,324	22,400	25,066	25,541	29,308	28,262	37,496	44,146	50,869	413,649
Kerosine	11,817	10,703	8,769	5,266	4,432	3,475	2,861	5,295	5,945	7,366	8,553	11,372	85,854
Distillate fuel oil	115,432	120,758	107,760	83,333	69,765	65,815	54,829	63,982	66,157	85,534	101,500	131,184	1,066,049
Residual fuel oil	87,275	91,953	83,151	73,311	65,439	65,873	65,375	70,068	67,112	73,162	85,284	97,644	925,647
Petrochemical feedstocks: [7]													
Still gas	1,230	1,055	1,033	935	1,095	1,147	1,378	1,444	1,144	1,500	1,360	1,357	14,678
Naphtha—400°	5,148	4,562	4,393	5,012	4,798	4,874	4,803	4,894	4,419	4,782	4,777	5,613	58,075
Other	3,619	3,801	4,283	4,154	4,615	3,361	4,150	4,517	4,943	5,364	3,807	4,500	51,114
Total petrochemical feedstocks	9,997	9,418	9,709	10,101	10,508	9,382	10,331	10,855	10,506	11,646	9,944	11,470	123,867
Special naphthas	2,503	2,457	3,197	2,398	2,691	2,812	2,423	2,946	2,629	2,915	2,256	2,661	31,888
Lubricants	3,751	4,127	4,575	4,567	4,547	4,299	4,848	4,743	4,286	4,612	4,589	3,857	52,801
Wax	404	422	398	426	462	483	424	504	477	467	490	453	5,410
Coke	7,819	7,211	6,908	6,456	6,458	6,141	6,780	8,424	7,566	8,078	8,268	8,210	88,319
Asphalt	5,691	6,096	7,547	10,110	15,680	19,222	20,014	24,244	19,727	17,556	11,139	6,762	163,788
Road oil	167	86	174	335	848	1,047	1,347	1,334	1,039	771	287	103	7,538
Still gas	13,814	12,700	13,514	13,375	13,977	14,381	15,171	15,589	14,642	14,573	14,308	14,949	170,993
Miscellaneous products	1,188	1,245	1,466	1,233	1,007	1,009	1,135	1,724	1,252	1,264	1,536	1,221	15,280
Total domestic demand	518,819	517,933	522,718	465,869	458,842	468,390	459,605	494,181	464,622	510,061	528,176	580,963	5,990,179
Stocks all oils:													
Crude oil and lease condensate	251,012	252,945	258,902	266,636	279,490	271,381	265,843	257,976	250,802	253,748	251,306	246,395	246,395
Unfinished oils	102,763	99,110	103,137	106,890	109,535	114,054	109,574	104,871	106,043	103,482	101,221	94,761	94,761
Natural gasoline and plant condensate [8]	6,395	6,543	6,633	6,737	6,766	6,392	6,416	7,019	7,023	6,740	6,295	6,075	6,075
Refined products	653,764	605,505	573,628	566,371	588,642	599,805	641,565	655,441	682,320	686,652	655,097	611,748	611,748
Total	1,013,934	964,103	942,300	946,634	984,433	991,632	1,023,398	1,025,307	1,046,188	1,050,622	1,013,919	958,979	958,979

[p] Preliminary.
[1] U.S. Department of the Interior data for crude oil, unfinished oils, and plant condensate; U.S. Department of Commerce data for all other imports.
[2] Represents the difference between supply and indicated demand for crude petroleum.
[3] Minus represents withdrawal from stock, which is added to total disposition; plus represents stocks increase, which is subtracted from total disposition.
[4] U.S. Department of Commerce data.
[5] Liquefied refinery gas.
[6] Liquefied petroleum gas.
[7] Produced at petroleum refineries. Data for LPG for petrochemical feedstocks are included with those for "Liquefied gases."
[8] Includes isopentane.

Table 4.—Estimates of proved crude-oil reserves in the United States on December 31, by State [1]

(Million barrels)

State	1968	1969	1970	1971	1972
Eastern States:					
Illinois	314	272	229	209	175
Indiana	40	41	37	31	29
Kentucky	80	73	61	52	48
Michigan	55	52	46	59	62
New York	13	12	11	10	9
Ohio	132	127	128	129	127
Pennsylvania	59	55	51	47	37
West Virginia	54	53	53	52	34
Total	747	685	616	589	521
Central and Southern States:					
Alabama	73	67	65	61	57
Arkansas	159	127	130	118	113
Florida	[2]	[2]	[2]	204	208
Kansas	601	566	539	502	453
Louisiana [3]	5,608	5,689	5,710	5,399	5,029
Mississippi	326	360	355	342	313
Nebraska	55	47	41	36	31
New Mexico	865	840	761	657	583
North Dakota	287	235	192	174	166
Oklahoma	1,395	1,390	1,351	1,405	1,303
Texas [3]	13,810	13,063	13,195	13,023	12,144
Total	23,179	22,384	22,339	r 21,921	20,400
Mountain States:					
Colorado	420	401	389	333	326
Montana	345	276	242	228	241
Utah	180	195	182	166	244
Wyoming	1,101	997	1,017	997	950
Total	2,046	1,869	1,830	1,724	1,761
Pacific Coast States:					
Alaska	373	432	10,149	10,116	[4] 10,096
California [3]	4,341	4,243	3,984	3,706	3,554
Total [1]	4,714	4,675	14,133	13,822	13,650
Other States [5]	21	19	83	7	7
Total United States	30,707	29,632	39,001	38,063	36,339

r Revised.

[1] From reports of Committee of Petroleum Reserves, American Petroleum Institute. Includes crude oil that may be extracted by present methods from fields completely developed or sufficiently explored to permit reasonable accurate calculations. The change in reserves during any year represents total new discoveries, extensions, and revisions, minus production.

[2] Included with "Other States."

[3] Includes offshore reserves.

[4] This number includes the estimate of proved reserves in the Prudhoe Bay Permo-Triassic reservoir, discovered in 1968. This estimate is based on the analysis of extensive engineering and geologic data; however, revisions may be required when actual production performance becomes available.

[5] Includes Arizona, Missouri, Nevada, South Dakota, Tennessee, and Virginia.

Table 5.—Supply and disposition of crude petroleum (including lease condensate) in the United States

(Thousand barrels)

Supply and disposition	1968	1969	1970	1971	1972 p
Supply:					
Production	3,329,042	3,371,751	3,517,450	3,453,914	3,455,368
Imports [1]	472,323	514,114	483,293	613,417	811,135
Total new supply	3,801,365	3,885,865	4,000,743	4,067,331	4,266,503
Stock changes: [2]					
Domestic crude	+17,653	−4,668	+10,380	−23,239	−17,064
Foreign crude	+5,570	−2,298	+760	+6,520	+3,811
Unaccounted for [3]	+7,138	−2,561	−7,721	+14,823	+10,201
Disposition by use:					
Runs of domestic crude	3,308,044	3,363,602	3,485,332	3,481,543	3,473,880
Runs of foreign crude	466,316	516,003	482,171	606,266	806,983
Exports [4]	1,802	1,436	4,991	503	187
Transfers:					
Distillate	712	654	743	1,548	944
Residual	4,272	4,334	4,317	4,565	3,322
Losses	4,134	4,241	4,328	4,448	4,641
Total disposition by use	3,785,280	3,890,270	3,981,882	4,098,873	4,289,957

p Preliminary except for crude petroleum production.

[1] Bureau of Mines data.

[2] Minus represents withdrawal from stock; plus represents stock increase.

[3] Represents the difference between supply and indicated demand for crude petroleum beginning with 1968.

[4] U.S. Department of Commerce data.

Table 6.—Supply and disposition of crude petroleum (including lease condensate) in the United States, by month

(Thousand barrels)

Supply and disposition	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1971													
Supply:													
Production	299,305	272,404	302,809	293,068	298,980	288,117	293,154	291,730	274,057	284,032	274,170	282,088	3,453,914
Imports [1]	34,772	37,655	43,235	45,207	46,540	50,337	54,768	58,755	57,012	59,617	59,557	65,962	613,417
Total new supply	334,077	310,059	346,044	338,275	345,520	338,454	347,922	350,485	331,069	343,649	333,727	348,050	4,067,331
Change in stocks, end of period:													
Domestic crude	−1,987	−4,707	−1,837	+2,420	+11,545	−4,597	−8,530	−1,631	−1,869	−6,366	+2,865	−8,545	−23,239
Foreign crude	−4,574	+1,765	+2,219	+1,779	+1,330	−386	+2,428	+813	−777	+2,494	−3,212	+2,641	+6,520
Unaccounted for [2]	+5,053	+31	+338	+3,287	+974	+1,985	+1,901	+2,048	+1,358	−979	+336	−1,509	+14,823
Disposition by use:													
Runs of domestic crude	305,620	276,397	304,104	292,953	287,682	293,854	302,703	294,498	276,284	288,419	270,829	288,200	3,481,543
Runs of foreign crude	39,316	35,869	40,974	43,269	45,117	50,651	52,304	57,907	57,750	57,097	62,732	63,280	606,266
Exports [3]	--	2	1	313	8	--	--	--	143	36	--	--	503
Transfers:													
Distillate	52	51	67	125	124	166	166	184	159	142	131	181	1,548
Residual	328	371	479	337	325	376	367	380	373	472	354	403	4,565
Losses	375	342	375	366	363	375	385	382	364	376	364	381	4,448
Total disposition by use	345,691	313,032	346,000	337,363	333,619	345,422	355,925	353,351	335,073	346,542	334,410	352,445	4,098,873
1972 [p]													
Supply:													
Production	282,543	270,749	293,311	285,389	298,043	285,646	294,385	293,958	285,249	293,929	282,793	289,373	3,455,368
Imports [1]	63,419	60,344	64,066	60,129	66,958	62,544	67,635	65,463	70,909	78,003	68,978	82,687	811,135
Total new supply	345,962	331,093	357,377	345,518	365,001	348,190	362,020	359,421	356,158	371,932	351,771	372,060	4,266,503
Change in stocks, end of period:													
Domestic crude	−7,727	+2,899	+5,379	+4,948	+8,886	−4,812	−8,055	−7,108	−4,248	+1,102	+1,408	−9,736	−17,064
Foreign crude	−909	−966	+578	+2,786	+3,968	−3,297	+2,517	−759	−2,926	+1,844	−3,850	+4,825	+3,811
Unaccounted for [2]	−831	+853	+963	−1,387	+4,381	−315	+1,645	+2,852	+793	−214	+2,130	−669	+10,201
Disposition by use:													
Runs of domestic crude	288,758	268,078	288,230	278,197	292,840	289,416	303,350	303,162	289,560	291,916	282,723	297,650	3,473,880
Runs of foreign crude	64,277	61,254	63,473	57,336	62,966	65,820	65,095	66,215	73,804	76,083	72,815	77,845	806,983
Exports [3]	--	--	--	187	--	--	--	--	--	--	--	--	187
Transfers:													
Distillate	72	60	46	68	81	88	91	92	89	66	105	86	944
Residual	277	262	252	243	255	275	268	272	279	309	314	316	3,322
Losses	383	359	382	366	386	385	399	399	393	398	386	405	4,641
Total disposition by use	353,767	330,013	352,383	336,397	356,528	355,984	369,203	370,140	364,125	368,772	356,343	376,302	4,289,957

[p] Preliminary except for crude petroleum production.
[1] Reported to the Bureau of Mines. Imports of crude oil include some Athabasca hydrocarbons.
[2] Represents the difference between supply and indicated demand for crude petroleum.
[3] U.S. Department of Commerce.

Table 7.—Production of crude petroleum (including lease condensate) in the United States, by State and month

(Thousand barrels)

State	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1971													
Alabama	628	601	658	646	663	638	659	661	653	663	674	688	7,832
Alaska	6,174	5,904	6,481	6,467	7,177	6,831	7,121	6,923	6,613	6,837	6,529	6,437	79,494
Arizona	123	106	120	108	110	103	106	103	93	83	90	91	1,236
Arkansas	1,568	1,395	1,586	1,551	1,561	1,511	1,513	1,528	1,423	1,551	1,511	1,565	18,263
California:													
South	12,456	11,113	12,332	11,940	12,251	11,867	12,146	12,017	11,546	11,923	11,478	11,836	142,905
Central Coastal	7,308	6,539	7,320	7,218	7,508	7,317	7,391	7,359	7,086	7,183	6,865	6,884	85,978
East Central	10,927	10,000	11,436	10,722	11,023	10,613	10,898	10,841	10,524	10,774	10,543	10,648	128,949
North	53	53	53	56	57	57	54	54	48	50	57	60	652
Total California	30,744	27,705	31,141	29,936	30,839	29,854	30,489	30,271	29,204	29,930	28,943	29,428	358,484
Colorado	2,094	1,950	2,242	2,311	2,062	1,784	3,107	2,362	2,196	2,275	2,580	2,428	27,391
Florida	433	399	479	506	434	406	438	434	430	439	451	498	5,347
Illinois	3,383	3,104	3,538	3,322	3,323	3,305	3,262	3,285	3,091	3,210	3,114	3,147	39,084
Indiana	552	495	592	560	560	563	563	570	543	543	552	565	6,658
Kansas	6,532	5,676	7,135	6,711	6,627	6,680	6,636	6,680	6,425	6,486	6,386	6,558	78,532
Kentucky	875	817	958	917	905	903	890	911	867	857	878	914	10,692
Louisiana:													
Gulf Coast	75,882	70,052	76,387	75,023	77,245	74,957	76,668	78,014	69,108	73,788	70,214	72,490	889,828
Rest of State	3,957	3,580	3,884	3,794	3,895	3,793	3,858	3,817	3,677	3,778	3,641	3,741	45,415
Total Louisiana	79,839	73,632	80,271	78,817	81,140	78,750	80,526	81,831	72,785	77,566	73,855	76,231	935,243
Michigan	937	881	995	976	1,033	987	984	996	1,009	1,014	1,019	1,062	11,893
Mississippi	5,539	5,057	5,647	5,542	5,576	5,313	5,410	5,444	5,222	5,222	4,964	5,130	64,066
Missouri	6	5	6	5	6	5	6	5	5	6	5	6	66
Montana	3,107	2,762	3,058	2,880	2,912	2,892	2,889	2,893	2,807	2,826	2,746	2,827	34,599
Nebraska	925	834	886	854	857	814	822	814	788	818	808	842	10,062
Nevada	7	9	12	10	11	10	8	9	9	9	10	9	113
New Mexico:													
Southeastern	9,611	8,793	9,693	9,331	9,564	9,148	9,162	9,095	8,439	9,269	8,657	8,835	109,597
Northwestern	760	728	801	738	749	714	919	904	523	394	780	805	8,815
Total New Mexico	10,371	9,521	10,494	10,069	10,313	9,862	10,081	9,999	8,962	9,663	9,437	9,640	118,412
New York	98	86	99	85	103	99	101	86	100	97	92	80	1,126
North Dakota	1,823	1,658	1,862	1,788	1,859	1,784	1,853	1,840	1,791	1,834	1,756	1,805	21,653
Ohio	753	594	750	707	656	700	654	623	689	783	679	698	8,286
Oklahoma	18,031	16,048	18,695	17,967	18,146	17,785	18,099	18,271	17,409	17,586	17,186	18,090	213,313
Pennsylvania	292	269	330	319	318	339	326	327	331	322	316	309	3,798
South Dakota	12	11	20	25	25	21	22	17	20	19	22	19	233
Tennessee	34	30	34	33	34	33	34	34	32	34	32	34	398

Texas:													
District 1	1,738	1,648	1,871	1,835	1,948	1,924	1,985	1,879	1,913	1,962	1,891	1,997	22,591
District 2	7,162	6,446	7,035	6,888	6,913	6,420	6,262	6,106	5,778	5,885	5,689	5,844	76,428
District 3	15,022	13,502	15,013	14,492	14,622	13,825	13,581	13,016	12,334	12,593	12,054	12,365	162,369
District 4	7,313	6,565	7,072	6,748	6,733	6,361	6,412	6,287	5,838	6,068	5,923	6,029	77,349
District 5	2,436	2,219	2,455	2,448	2,427	2,301	2,231	2,159	2,048	2,088	2,026	2,082	26,920
District 6, except East Texas	6,947	6,218	6,958	6,641	6,619	6,341	6,027	5,921	5,730	5,723	5,463	5,661	74,249
East Texas	6,581	5,897	6,552	6,224	6,131	5,787	5,444	5,264	5,027	5,079	4,851	5,023	67,860
District 7B	3,258	2,980	3,270	3,163	3,162	3,038	3,033	2,992	2,898	2,950	2,884	2,912	36,490
District 7C	3,835	3,541	3,898	3,702	3,722	3,526	3,520	3,544	3,400	3,521	3,437	3,554	43,200
District 8	25,180	22,933	25,433	24,382	24,866	23,907	24,212	24,179	23,345	24,162	23,323	24,036	289,958
District 8A	23,227	21,068	23,247	22,400	23,198	22,160	22,725	22,415	21,366	22,081	21,321	22,298	267,506
District 9	4,637	4,208	4,655	4,467	4,517	4,228	4,290	4,284	4,073	4,234	4,121	4,141	51,855
District 10	2,260	1,968	2,339	2,243	2,294	2,166	2,170	2,183	2,135	2,143	2,102	2,148	26,151
Total Texas	109,596	99,143	109,798	105,633	107,152	101,984	101,842	100,229	95,885	98,489	95,085	98,090	1,222,926
Utah	1,898	1,764	1,967	1,858	1,897	1,872	1,952	2,082	2,081	2,112	2,010	2,137	23,630
Virginia	--	--	--	--	--	--	--	--	--	--	--	1	1
West Virginia	235	208	265	252	263	260	245	259	257	244	226	255	2,969
Wyoming	12,696	11,740	12,690	12,213	12,418	12,029	12,516	12,243	12,337	12,514	12,214	12,504	148,114
Total United States:													
1971	299,305	272,404	302,809	293,068	298,980	288,117	293,154	291,730	274,057	284,032	274,170	282,088	3,453,914
1970	293,832	267,964	294,741	287,737	295,217	280,765	285,227	296,366	295,593	310,410	301,331	308,267	3,517,450
Daily average, 1971	9,655.0	9,728.7	9,768.0	9,768.9	9,644.5	9,603.9	9,456.6	9,410.6	9,135.2	9,162.3	9,139.0	9,099.6	9,462.8
Pennsylvania grade (included in U.S. total)	946	866	1,066	1,024	1,029	1,056	1,012	1,017	1,119	1,105	1,067	1,091	12,398
1972													
Alabama	730	697	782	784	838	818	892	907	879	882	857	868	9,934
Alaska	6,423	5,448	6,261	6,066	6,228	6,085	6,276	6,059	5,883	6,124	5,946	6,094	72,893
Arizona	89	83	87	80	86	83	87	89	86	79	64	80	993
Arkansas	1,521	1,463	1,570	1,523	1,582	1,531	1,584	1,577	1,526	1,588	1,501	1,553	18,519
California:													
South	11,879	11,377	11,901	11,549	12,153	11,725	12,101	12,128	11,642	11,972	11,639	11,817	141,883
Central Coastal	6,736	6,192	6,683	6,392	6,560	6,307	6,547	6,538	6,285	6,477	6,233	6,383	77,333
East Central	10,730	10,140	10,884	10,601	10,866	10,386	10,719	10,755	10,413	10,805	10,346	10,494	127,139
North	53	50	47	50	58	53	54	58	48	61	68	67	667
Total California	29,398	27,759	29,515	28,592	29,637	28,471	29,421	29,479	28,388	29,315	28,286	28,761	347,022
Colorado	2,239	2,215	2,445	2,390	2,587	2,523	2,641	2,760	2,868	2,866	3,158	3,323	32,015
Florida	532	554	621	958	1,178	1,126	1,497	1,774	1,954	1,922	2,201	2,580	16,897
Illinois	3,198	2,874	3,071	2,828	3,044	2,912	2,859	2,976	2,769	2,869	2,798	2,676	34,874
Indiana	614	483	525	471	522	495	503	544	512	534	482	445	6,130
Kansas	6,204	6,159	6,594	6,196	6,513	6,183	6,154	6,272	5,980	6,078	5,702	5,709	73,744
Kentucky	820	794	855	778	869	826	809	846	772	812	779	742	9,702
Louisiana:													
Gulf Coast	71,981	66,427	72,100	69,556	73,360	71,459	71,789	71,592	68,402	71,532	68,868	70,488	847,554
Rest of State	4,041	3,870	4,119	3,959	3,771	1,922	3,600	3,843	4,598	3,799	3,494	3,257	44,273
Total Louisiana	76,022	70,297	76,219	73,515	77,131	73,381	75,389	75,435	73,000	75,331	72,362	73,745	891,827

Table 7.—Production of crude petroleum (including lease condensate) in the United States, by State and month—Continued

(Thousand barrels)

State	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Michigan	1,055	917	994	1,021	1,077	1,076	1,121	1,175	1,158	1,218	1,098	1,080	12,990
Mississippi	5,017	4,760	5,195	5,166	5,306	5,108	5,251	5,233	4,964	5,083	4,895	5,122	61,100
Missouri	5	5	5	5	5	5	5	5	5	5	5	5	60
Montana	2,729	2,624	2,888	2,823	2,906	2,819	2,900	2,855	2,775	2,891	2,798	2,896	33,904
Nebraska	794	743	776	755	763	722	724	719	686	710	662	651	8,705
Nevada	8	8	9	7	9	8	6	7	9	10	8	11	100
New Mexico:													
Southeastern	8,847	8,307	8,836	8,595	8,787	8,339	8,594	8,571	8,172	8,488	8,146	8,238	101,920
Northwestern	817	761	763	749	739	649	693	715	687	691	669	672	8,605
Total New Mexico	9,664	9,068	9,599	9,344	9,526	8,988	9,287	9,286	8,859	9,179	8,815	8,910	110,525
New York	96	88	92	66	90	93	108	72	81	85	74	73	1,018
North Dakota	1,754	1,654	1,791	1,693	1,728	1,698	1,730	1,722	1,696	1,737	1,685	1,736	20,624
Ohio	870	808	805	709	788	799	785	866	721	755	721	731	9,358
Oklahoma	17,696	18,017	17,464	16,921	18,073	17,112	17,967	16,708	17,108	17,165	16,480	16,922	207,633
Pennsylvania	289	266	262	260	304	289	283	302	279	325	294	288	3,441
South Dakota	14	13	23	20	20	18	17	20	18	20	17	19	219
Tennessee	17	15	17	16	17	16	17	17	16	17	16	17	198
Texas:													
District 1	2,032	1,993	2,175	2,122	2,155	2,073	2,116	2,060	1,932	2,015	1,896	1,926	24,495
District 2	5,972	6,028	6,893	7,151	7,338	7,131	7,260	7,011	6,716	6,952	6,661	6,692	81,805
District 3	12,655	12,709	14,560	15,233	15,697	15,100	15,603	15,932	15,433	15,679	14,934	15,267	178,802
District 4	5,977	5,625	6,174	5,953	6,010	5,701	5,740	5,588	5,302	5,471	5,222	5,352	68,115
District 5	2,243	2,334	2,682	2,905	2,991	2,871	2,937	2,940	2,827	2,917	2,818	2,892	33,357
District 6, except East Texas	5,839	5,989	6,893	7,268	7,662	7,341	7,520	7,426	7,171	7,533	7,170	7,280	85,092
East Texas	5,186	5,395	6,375	6,133	6,311	6,083	6,261	6,210	5,988	6,176	5,971	6,105	72,194
District 7B	2,913	2,850	3,132	3,097	3,293	3,211	3,324	3,334	3,202	3,274	3,153	3,212	37,995
District 7C	3,504	3,371	3,650	3,507	3,624	3,447	3,555	3,452	3,382	3,508	3,491	3,589	42,080
District 8	23,909	23,159	24,873	24,321	25,122	23,977	24,801	24,656	23,797	24,451	23,707	24,101	290,874
District 8A	23,095	22,877	25,478	24,688	26,353	25,535	26,708	27,368	26,731	28,146	27,213	28,528	312,720
District 9	4,168	4,005	4,343	4,208	4,366	4,146	4,232	4,137	3,997	4,090	3,966	4,053	49,711
District 10	2,148	2,042	2,194	2,102	2,149	2,043	2,060	2,038	1,966	2,007	1,868	1,828	24,445
Total Texas	99,641	98,377	109,422	108,688	113,071	108,659	112,117	112,152	108,444	112,219	108,070	110,825	1,301,685

Utah	2,196	2,115	2,282	2,204	2,147	2,238	2,193	2,282	2,275	2,281	2,282	2,075	26,570
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	222	209	243	219	229	240	220	237	215	224	214	205	2,677
Wyoming	12,686	12,236	12,899	11,291	11,769	11,324	11,542	11,582	11,323	11,605	10,523	11,231	140,011
Total United States:													
1972	282,543	270,749	293,311	285,389	298,043	285,646	294,385	293,958	285,249	293,929	282,793	289,373	3,455,368
1971	299,305	272,404	302,809	293,068	298,980	288,117	293,154	291,730	274,057	284,032	274,170	282,088	3,453,914
Daily average, 1972	9,114	9,336	9,462	9,513	9,614	9,522	9,496	9,483	9,508	9,482	9,426	9,335	9,441
Pennsylvania grade (included in U.S. total)	1,232	1,155	1,121	1,013	1,120	1,127	1,108	1,146	1,016	1,097	1,016	1,025	13,176

Sources of 1972 data:

Alabama—State Oil and Gas Board of Alabama.
Alaska—Alaska Department of Natural Resources.
Arizona—Arizona Oil and Gas Conservation Commission.
Arkansas—Arkansas Oil and Gas Commission.
California—Division of Oil and Gas, California Department of Conservation.
Colorado—Colorado Oil and Gas Conservation Commission.
Florida—Florida Department of Natural Resources.
Illinois—Illinois State Geological Survey.
Indiana—Indiana Department of Natural Resources.
Kansas—Kansas Corporation Commission.
Kentucky—Kentucky Geological Survey.
Louisiana—Louisiana Department of Conservation and U.S. Geological Survey.
Michigan—Geological Survey Division, Michigan Department of Natural Resources.
Mississippi—Mississippi State Oil and Gas Board.
Missouri—Missouri Geological Survey and Water Resources.
Montana—Montana Board of Oil and Gas Conservation.
Nebraska—Nebraska Oil and Gas Conservation Commission.
Nevada—Nevada Oil and Gas Conservation Commission.
New Mexico—New Mexico Oil Conservation Commission.
New York—New York State Geological Survey.
North Dakota—North Dakota Geological Survey.
Ohio—Ohio Department of Natural Resources.
Oklahoma—Oklahoma Corporation Commission and Oklahoma Tax Commission.
Pennsylvania—Topographic and Geologic Survey, Pennsylvania Department of Environmental Resources.
South Dakota—South Dakota Geological Survey.
Tennessee—Division of Geology, Tennessee Department of Conservation.
Texas—Oil and Gas Division, The Railroad Commission of Texas.
Utah—Utah Department of Natural Resources.
Virginia—Division of Mineral Resources, Viriginia Department of Conservation and Economic Development.
West Virginia—West Virginia Department of Mines.
Wyoming—Wyoming State Oil and Gas Conservation Commission.

Table 8.—Percentage of total U.S. crude petroleum produced, by State

State	1968	1969	1970	1971	1972
Texas	34.1	34.2	35.5	35.4	37.7
Louisiana	24.6	25.0	25.8	27.1	25.8
California	11.2	11.1	10.6	10.4	10.0
Oklahoma	6.7	6.7	6.4	6.2	6.0
Wyoming	4.3	4.6	4.6	4.3	4.1
New Mexico	3.8	3.8	3.6	3.4	3.2
Kansas	2.9	2.6	2.4	2.3	2.1
Alaska	2.0	2.2	2.4	2.3	2.1
Mississippi	1.7	1.9	1.9	1.9	1.8
Illinois	1.7	1.5	1.2	1.1	1.0
Montana	1.5	1.3	1.1	1.0	1.0
Colorado	1.0	.8	.7	.8	.9
Utah	.7	.7	.7	.7	.8
North Dakota	.7	.7	.6	.6	.6
Arkansas	.6	.5	.5	.5	.5
Michigan	.4	.4	.3	.3	.4
Kentucky	.4	.4	.3	.3	.3
Ohio	.3	.3	.3	.2	.3
Nebraska	.4	.4	.3	.3	.2
Other States	r1.0	r .9	r .8	r .9	1.2
Total	100.0	100.0	100.0	100.0	100.0

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Table 9.—Production and reserves of crude petroleum in leading fields in the United States

(Thousand barrels)

Field [1]	State	Production		Total since discovery [2]	Estimated reserves
		1971	1972		
East Texas	Texas	71,139	77,702	4,093,967	1,906,033
Wilmington	California	72,859	70,117	1,549,450	830,383
Kelly-Snyder	Texas	52,487	63,554	610,983	639,017
Wasson	do	51,210	62,764	700,037	799,963
McArthur River	Alaska	40,683	40,825	175,361	196,110
Slaughter	Texas	35,515	39,933	502,946	287,054
Hawkins	do	29,054	37,271	456,554	368,446
Midway Sunset	California	33,583	34,546	1,157,860	347,810
Sho-Vel-Tum	Oklahoma	36,500	33,800	934,886	215,114
Timbalier Bay	Louisiana	30,988	(3)	(3)	(3)
Caillou Island	do	31,828	29,683	473,262	226,738
Tom O'Connor	Texas	23,360	29,635	442,848	257,152
Bay Marchand Block 2	Louisiana	30,806	29,390	364,341	285,659
Kern River	California	25,542	27,197	577,458	397,261
West Delta Block 30	Louisiana	26,390	25,144	265,250	184,750
Grand Isle Block 43	do	22,776	23,095	121,938	248,134
Hastings, East and West	Texas	17,191	21,760	452,533	222,467
Huntington Beach	California	16,249	21,595	884,156	129,428
Spraberry Trend	Texas	18,688	20,617	341,060	168,940
Webster	do	16,206	20,515	367,302	207,698
Dos Cuadras	California	27,739	20,018	70,770	104,982
Grand Isle Block 16	Louisiana	21,681	19,690	178,960	171,040
Goldsmith All	Texas	20,951	19,015	541,929	133,071
South Pass Block 24	Louisiana	20,330	18,227	339,513	150,487
West Ranch	Texas	17,009	18,162	248,217	176,783
Fairway	do	14,271	18,095	92,787	1,072,130
Main Pass Block 41	Louisiana	18,469	17,678	119,315	160,685
Vacuum	New Mexico	17,030	17,445	257,618	142,382
South Pass Block 27	Louisiana	21,425	17,312	233,992	151,008
Conroe	Texas	12,994	17,278	497,076	177,924
Yates	do	13,359	17,214	569,057	1,030,943
West Delta Block 73	Louisiana	15,987	16,250	111,217	163,783
Van and Van Shallow	Texas	12,337	16,105	386,462	163,538
Thompson (all fields)	do	12,885	15,607	337,894	162,106
Cowden South (Foster, Johnson)	do	14,198	15,271	266,824	133,176
Ship Shoal Block 208	Louisiana	10,038	14,420	70,685	154,315
Sooner Trend	Oklahoma	15,240	14,390	178,124	71,876
Cogdell Area	Texas	14,235	14,054	165,426	154,574
W. Cote Blanche Bay	Louisiana	15,658	13,908	129,148	120,852
Jay	Florida	370	13,870	14,240	235,760
Panhandle	Texas	14,235	13,810	1,258,659	156,341
Timbalier South Block 135	Louisiana	13,578	(3)	(3)	(3)
Salt Creek	Texas	9,271	13,054	101,556	128,444
Garden Island Bay	Louisiana	16,096	12,993	156,042	88,958

See footnotes at end of table.

Table 9.—Production and reserves of crude petroleum in leading fields in the United States—Continued

(Thousand barrels)

Field [1]	State	Production		Total since discovery [2]	Estimated reserves
		1971	1972		
Elk Basin	Montana, Wyoming	14,380	12,500	451,795	88,205
Oregon Basin	Wyoming	12,260	12,200	217,603	72,397
Salt Creek	----do	11,750	12,060	514,400	80,600
Golden Trend	Oklahoma	12,330	11,955	384,001	15,999
South Pass Block 65	Louisiana	(3)	11,931	24,000	166,000
Rangely	Colorado	10,040	11,668	471,959	128,041
Main Pass Block 69	Louisiana	12,775	11,566	172,113	87,887
Seminole All	Texas	9,125	11,451	183,770	131,230
Dune	----do	11,425	11,332	109,847	90,153
Anahuac	----do	9,052	11,255	223,841	126,159
Weeks Island	Louisiana	10,183	11,053	184,243	105,757
San Ardo	California	9,939	10,816	248,708	79,245
Cowden North	Texas	9,782	10,757	248,775	76,225
Ventura	California	10,188	10,369	771,108	80,968
McElroy	Texas	9,015	10,289	286,926	73,074
South Pass Block 62	Louisiana	(3)	10,248	33,290	156,710
Levelland	Texas	9,746	10,041	208,916	116,084
Middle Ground Shoal	Alaska	11,277	9,639	68,344	116,292
Baxterville	Mississippi	9,300	9,630	152,258	82,742
Lake Washington	Louisiana	10,913	9,333	185,221	89,779
Lafitte	----do	10,877	9,333	198,594	86,406
Black Bay West	----do	9,892	9,113	76,434	73,566
West Bay	----do	9,563	9,040	161,501	78,499
Swanson River	Alaska	11,709	8,874	134,470	63,997
Big Wells	Texas	5,840	8,844	16,661	133,339
Ward-Estes North	----do	10,184	8,747	296,484	78,516
Empire Abo	New Mexico	9,520	8,735	89,107	80,893
Belridge South	California	9,211	8,705	177,725	82,084
Trading Bay	Alaska	(3)	8,690	40,511	22,835
West Delta Block 58	Louisiana	(3)	8,674	19,880	130,120
Ship Shoal Block 207	----do	(3)	8,638	31,232	143,768
Cote Blanche Island	----do	8,797	8,015	66,532	63,468
Means All	Texas	7,921	7,889	131,928	78,072
Hilight	Wyoming	11,300	7,800	34,194	100,806
Diamond M	Texas	7,373	7,769	182,617	92,383
Coalinga	California	7,866	7,702	619,436	59,432
Eugene Island Block 276	Louisiana	(3)	7,613	35,760	129,240
Main Pass Block 306	----do	(3)	7,576	19,717	130,283
Maljamar	New Mexico	6,040	7,524	91,430	73,570
Greater Aneth	Utah	7,660	7,470	243,701	71,299
Bay St. Elaine	Louisiana	7,775	7,247	132,348	67,552
Keystone	Texas	8,322	7,024	262,473	57,527
Welch	----do	(3)	7,221	75,866	74,134
Howard Glasscock	----do	6,606	7,022	296,490	78,510

[1] Fields under 7 million barrels not shown for current year.
[2] Includes revisions, if any.
[3] Not reported.

Source: Oil and Gas Journal. All figures are preliminary.

Table 10.—Well completions in the United States, by quarter [1]

	1st quarter	2d quarter	3d quarter	4th quarter	Total	
					Number	%
1971:						
Oil	2,972	2,851	2,769	3,266	11,858	45.9
Gas [2]	987	858	902	1,133	3,880	14.8
Dry	2,257	2,260	2,563	3,083	10,163	39.3
Total	6,166	5,969	6,234	7,482	25,851	100.0
1972:						
Oil	2,979	2,881	2,811	2,635	11,306	41.4
Gas [2]	1,021	1,081	1,212	1,614	4,928	18.1
Dry	2,686	2,493	2,699	3,179	11,057	40.5
Total	6,686	6,455	6,722	7,428	27,291	100.0

[1] Excludes service wells.
[2] Includes condensate wells.
Note:—Data by quarters adjusted to agree with annual totals.

Source: American Petroleum Institute.

Table 11.—Well completions in the United States, by State and district [1]

State and district	1971				1972			
	Oil	Gas [2]	Dry	Total	Oil	Gas [2]	Dry	Total
Alabama	8	6	48	62	13	9	93	115
Alaska	27	1	4	32	12	2	12	26
Arizona	--	2	6	8	5	1	16	22
Arkansas	127	29	186	342	96	39	209	344
California	1,459	60	286	1,805	1,045	62	288	1,395
Colorado	154	148	635	937	300	124	581	1,005
Florida	8	--	13	21	65	--	44	109
Georgia	--	--	2	2	--	--	2	2
Illinois	252	16	296	564	255	18	329	602
Indiana	81	2	132	215	92	5	172	269
Iowa	--	--	1	1	--	--	--	--
Kansas	1,099	112	1,138	2,349	880	368	1,150	2,398
Kentucky	244	135	382	761	230	166	360	756
Louisiana:								
North	390	237	365	992	291	451	374	1,116
South	398	200	544	1,142	375	234	535	1,144
Offshore	258	184	359	801	253	133	419	805
Total Louisiana	1,046	621	1,268	2,935	919	818	1,328	3,065
Michigan	81	33	188	302	87	34	188	309
Mississippi	175	13	298	486	87	13	317	417
Missouri	6	1	6	13	--	--	3	3
Montana	45	33	349	427	83	125	545	753
Nebraska	47	1	139	187	48	2	242	292
Nevada	--	--	13	13	--	--	2	2
New Mexico:								
West	44	139	79	262	64	173	106	343
East	357	47	150	554	438	65	188	691
Total New Mexico	401	186	229	816	502	238	294	1,034
New York	83	7	10	100	96	22	12	130
North Carolina	--	--	12	12	--	--	--	--
North Dakota	49	1	109	159	23	--	76	99
Ohio	391	608	158	1,157	426	721	184	1,331
Oklahoma	1,174	238	843	2,255	1,025	341	934	2,300
Pennsylvania	394	199	48	641	534	297	70	901
South Dakota	2	--	33	35	4	--	32	36
Tennessee	57	23	115	195	14	9	71	94
Texas:								
District 1	430	16	196	642	438	29	189	656
District 2	70	102	175	347	95	111	245	451
District 3	311	133	334	778	289	140	386	815
District 4	172	166	298	636	147	200	292	639
District 5	27	24	92	143	17	14	69	100
District 6	201	36	131	368	101	45	120	266
District 7B	417	52	438	907	388	54	480	922
District 7C	202	90	170	462	330	102	195	627
District 8	961	85	169	1,215	940	100	195	1,235
District 8A	510	2	153	665	474	3	158	635
District 9	503	26	338	867	620	19	329	968
District 10	76	68	53	197	122	114	63	299
Offshore	--	10	34	44	2	12	39	53
Total Texas	3,880	810	2,581	7,271	3,963	943	2,760	7,666
Utah	30	6	51	87	73	13	74	160
Virginia	--	--	--	--	--	18	--	18
West Virginia	133	496	139	768	84	488	102	674
Wyoming	405	43	445	893	345	52	567	964
Total United States	11,858	3,830	10,163	25,851	11,306	4,928	11,057	27,291

[1] Excludes service wells.
[2] Includes condensate wells.

Source: American Petroleum Institute.

Table 12.—Producing oil wells in the United States and average production per well per day, by State

State	1971		1972	
	Approximate number of oil wells producing Dec. 31	Average production per well per day (barrels) [1]	Approximate number of oil wells producing Dec. 31	Average production per well per day (barrels) [1]
Alabama	556	38.4	544	49.3
Alaska	173	1,161.6	193	1,088.3
Arizona	30	116.8	28	93.6
Arkansas	7,110	7.1	7,157	7.1
California:				
South	10,513	36.9	9,740	38.3
Central Coastal	5,376	43.4	5,386	39.3
East Central	23,721	14.8	24,069	14.5
North	58	30.5	59	31.2
Total California	39,668	24.5	39,254	24.0
Colorado	1,785	42.2	1,897	47.5
Illinois	25,361	4.2	24,716	3.8
Indiana	3,605	4.8	[2] 4,379	4.2
Kansas	42,180	5.0	41,055	4.8
Kentucky	14,657	2.2	14,616	1.8
Louisiana:				
Gulf Coast	13,988	168.5	[2] 13,624	167.7
Northern	12,841	9.6	[2] 14,138	9.0
Total Louisiana	26,829	93.6	[2] 27,762	89.3
Michigan	4,046	7.8	3,685	9.2
Mississippi	3,109	56.5	3,195	53.0
Montana	3,145	29.7	3,544	27.7
Nebraska	1,191	22.6	1,143	20.4
New Mexico:				
Southwestern	15,679	19.1	15,703	17.7
Northwestern	1,531	15.6	1,584	15.1
Total New Mexico	17,210	18.8	17,287	17.5
New York	5,860	.5	5,427	.5
North Dakota	1,466	40.6	1,401	39.3
Ohio	14,771	1.5	15,222	1.7
Oklahoma	75,572	7.6	73,745	7.6
Pennsylvania	34,029	.3	32,596	.3
South Dakota	33	21.6	29	19.3
Texas:				
District 1	10,553	5.9	10,333	6.4
District 2	5,144	39.8	4,926	44.4
District 3	11,071	39.5	10,650	45.0
District 4	8,254	24.9	7,427	23.7
District 5	3,024	24.5	2,682	31.9
District 6, except East Texas	5,581	36.0	5,210	43.1
East Texas	14,516	12.6	13,960	13.8
District 7B	11,566	8.4	11,140	9.1
District 7C	7,510	15.4	7,491	15.3
District 8	36,564	21.6	36,126	21.9
District 8A	17,189	42.1	17,423	49.4
District 9	28,938	4.9	27,522	4.8
District 10	12,786	5.5	12,343	5.3
Total Texas	172,696	19.2	167,233	20.9
Utah	870	73.6	890	82.5
West Virginia	12,112	.7	[2] 12,136	.6
Wyoming	8,952	44.5	[2] 8,950	42.7
Other States:				
Florida	78	212.3	142	419.7
Missouri	139	1.4	137	1.2
Nevada	6	41.3	6	45.5
Tennessee	78	15.9	73	7.2
Virginia	1	.9	1	[3]
Total	302	57.9	359	142.6
Total United States	517,318	18.1	508,443	18.4

[1] Based on the average number of wells during the year.
[2] Estimated by Bureau of Mines; all other numbers of producing oil wells furnished by State agencies.
[3] Less than 500 barrels.

Table 13.—Daily average demand for crude petroleum (including lease condensate) in the United States, by State of origin and month

(Thousand barrels)

State	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1971													
Alabama	20.4	16.4	20.1	19.4	32.7	20.3	27.5	18.2	7.1	29.5	31.8	9.5	21.1
Alaska	274.5	179.0	245.9	212.8	185.6	271.8	218.5	246.9	208.6	234.9	230.0	180.9	224.4
Arizona	4.5	4.1	3.6	3.8	3.6	3.4	3.5	2.6	3.0	3.1	2.9	2.7	3.4
Arkansas	50.4	52.1	50.5	51.5	45.2	52.2	49.9	49.6	49.1	40.2	52.9	51.6	49.6
California	949.3	1,018.8	967.6	973.9	990.9	980.7	1,015.1	957.2	912.8	978.4	917.6	1,013.7	972.9
Colorado	71.2	67.9	74.1	70.5	46.6	69.4	95.2	90.8	59.9	76.8	79.1	88.2	74.2
Florida	13.4	16.3	11.4	15.0	14.9	21.5	15.3	16.5	11.8	17.8	14.0	9.8	14.8
Illinois	109.1	105.4	108.1	131.8	87.6	115.1	105.5	111.2	108.9	97.7	71.4	112.2	105.3
Indiana	20.1	18.0	19.3	20.6	14.8	19.2	22.3	17.3	15.2	19.3	18.3	18.3	18.6
Kansas	210.0	205.4	230.7	213.1	175.8	241.5	222.8	229.6	232.2	214.2	193.4	197.3	213.8
Kentucky	26.9	33.0	30.0	24.1	32.4	28.0	32.6	27.3	29.3	25.0	26.8	30.0	28.8
Louisiana	2,603.4	2,620.3	2,651.8	2,595.9	2,500.4	2,690.8	2,648.2	2,608.8	2,463.4	2,515.6	2,457.1	2,573.8	2,577.4
Michigan	29.6	32.8	29.2	30.2	34.4	32.5	29.4	33.0	30.5	32.4	35.6	39.8	32.5
Mississippi	179.3	175.4	185.9	179.8	166.3	180.5	185.5	189.6	173.7	157.2	174.7	175.9	177.0
Missouri	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Montana	117.9	111.6	95.2	109.5	75.8	100.9	99.2	90.0	103.0	86.5	100.1	91.6	98.3
Nebraska	28.2	36.5	28.5	28.0	19.8	25.6	31.2	27.9	26.0	23.2	26.2	27.3	27.3
Nevada	.2	.4	.4	.4	.4	.3	.3	.3	.3	.1	.5	.3	.3
New Mexico	363.0	360.6	314.5	336.1	298.1	343.3	328.1	321.4	293.0	338.5	317.8	286.9	324.8
New York	3.2	3.1	3.2	2.8	3.3	3.3	3.2	2.8	3.3	3.1	3.1	2.6	3.1
North Dakota	62.5	55.0	59.2	56.1	56.6	63.8	60.1	42.7	75.4	68.9	58.5	57.8	59.7
Ohio	26.5	21.5	23.7	20.8	20.6	26.2	21.2	17.6	21.8	22.7	23.1	21.7	22.3
Oklahoma	596.4	603.3	590.3	606.4	576.8	561.2	612.4	611.6	591.2	574.9	576.1	569.4	589.1
Pennsylvania	9.6	11.6	12.2	7.4	11.6	10.5	10.0	11.0	11.2	12.1	10.7	8.3	10.5
South Dakota	.4	.4	.6	.8	.8	.7	.7	.5	.7	.6	.7	.6	.6
Tennessee	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1
Texas	3,498.4	3,687.5	3,593.9	3,503.2	3,463.4	3,391.2	3,370.8	3,224.5	3,262.2	3,306.2	3,150.4	3,334.3	3,397.3
Utah	63.9	59.3	60.8	71.6	51.7	66.7	68.5	57.6	69.1	81.7	68.0	60.5	64.9
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	12.1	8.9	8.0	7.3	9.1	9.0	8.3	6.8	7.8	9.2	6.0	9.4	8.5
Wyoming	373.4	390.9	407.3	394.2	351.6	426.2	445.1	448.7	425.6	396.4	395.8	399.4	404.6
Total domestic crude	9,719.1	9,896.8	9,827.3	9,688.3	9,272.1	9,757.1	9,731.7	9,463.3	9,197.5	9,367.7	9,043.5	9,375.3	9,526.4
Foreign crude	1,269.2	1,281.8	1,323.1	1,447.6	1,458.4	1,690.8	1,688.4	1,869.1	1,926.3	1,842.7	2,092.3	2,042.6	1,662.7
Grand total 1971	10,988.3	11,178.6	11,150.4	11,135.9	10,730.5	11,447.9	11,420.1	11,332.4	11,123.8	11,210.4	11,135.8	11,417.9	11,189.1
Pennsylvania grade (included in total domestic crude above)	57.9	12.8	35.3	26.5	34.4	36.9	31.1	30.5	35.9	36.5	35.0	34.7	34.1

1972													
Alabama	37.4	22.3	26.4	25.8	28.8	23.0	30.2	26.9	22.5	31.3	29.6	19.5	27.0
Alaska	243.9	186.2	173.9	205.6	189.1	210.3	207.2	168.1	208.8	198.9	218.0	152.4	196.8
Arizona	3.1	2.8	2.9	2.6	2.8	3.2	2.4	2.9	2.5	2.6	3.1	2.2	2.8
Arkansas	55.1	49.2	51.0	50.2	51.5	50.3	46.4	50.7	51.4	58.4	51.5	47.9	51.1
California	896.4	969.0	983.1	936.6	940.8	911.4	931.9	1,019.5	942.3	971.8	915.6	1,008.2	952.4
Colorado	74.4	72.1	75.5	81.7	77.4	82.6	84.0	83.6	101.0	101.4	102.7	110.7	87.3
Florida	12.7	21.9	6.7	37.9	24.7	32.4	55.4	50.2	72.3	60.5	78.4	88.3	45.1
Illinois	113.7	108.7	98.7	106.7	100.1	106.5	106.5	106.3	101.8	99.5	92.0	97.6	103.2
Indiana	21.1	16.4	16.0	16.6	15.4	15.6	11.0	24.4	17.8	17.7	15.3	17.5	17.1
Kansas	215.6	204.2	209.9	195.4	214.1	206.1	219.0	219.1	203.8	197.6	212.8	190.5	207.4
Kentucky	32.2	36.0	28.2	22.1	20.1	34.0	28.3	23.1	26.1	26.8	29.5	21.4	27.3
Louisiana	2,476.7	2,411.0	2,486.4	2,360.9	2,468.4	2,507.4	2,481.5	2,426.2	2,409.0	2,435.5	2,432.0	2,426.1	2,443.8
Michigan	34.1	31.6	32.3	33.2	28.7	38.4	39.9	38.9	37.0	39.6	38.5	36.3	35.7
Mississippi	166.6	158.3	148.0	178.7	167.3	183.5	166.8	174.8	180.0	168.5	156.1	164.9	167.8
Missouri	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Montana	83.0	89.7	82.2	95.6	75.5	104.3	101.8	96.8	100.1	86.5	89.0	96.2	91.7
Nebraska	28.4	25.3	31.2	19.8	26.4	21.8	24.1	27.2	26.3	22.1	21.3	23.9	24.8
Nevada	.3	.3	.3	.2	.3	.3	.2	.2	.3	.3	.3	.4	.3
New Mexico	324.3	324.9	320.2	318.4	291.5	299.0	301.8	310.5	317.1	291.4	300.2	296.8	307.9
New York	3.1	3.0	3.0	2.2	2.9	3.1	3.5	2.3	2.7	2.7	2.5	2.4	2.8
North Dakota	55.6	58.3	58.5	50.8	59.6	57.1	54.6	50.8	58.2	54.5	59.1	56.5	56.1
Ohio	28.4	30.7	26.7	21.3	25.4	30.6	27.5	29.5	28.0	22.3	27.1	27.0	27.0
Oklahoma	602.1	616.0	533.2	581.3	568.7	609.0	628.6	561.8	601.2	561.6	533.4	503.7	574.8
Pennsylvania	12.2	9.6	8.6	5.5	9.1	10.4	8.8	5.6	9.0	14.9	14.1	8.4	9.6
South Dakota	.5	.4	.7	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
Tennessee	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
Texas	3,311.5	3,314.8	3,429.3	3,625.1	3,471.9	3,641.9	3,688.2	3,704.1	3,641.6	3,500.5	3,528.7	3,817.6	3,557.0
Utah	77.6	69.0	75.7	72.9	70.3	73.9	71.9	59.0	80.7	80.7	74.2	71.2	73.1
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	6.8	4.3	10.7	6.8	6.0	7.8	5.5	8.6	6.6	8.8	7.7	5.8	7.1
Wyoming	446.0	399.5	368.1	292.8	389.6	416.7	427.8	439.4	400.5	388.3	345.5	354.0	389.2
Total domestic crude	9,363.5	9,236.2	9,288.1	9,348.0	9,327.7	9,681.9	9,756.1	9,711.8	9,649.9	9,446.0	9,379.5	9,648.7	9,487.5
Foreign crude	2,075.1	2,114.1	2,048.0	1,911.5	2,031.9	2,194.7	2,100.6	2,136.2	2,461.2	2,456.8	2,427.6	2,511.7	2,205.8
Grand total 1972	11,438.6	11,350.3	11,336.1	11,259.5	11,359.6	11,876.6	11,856.7	11,848.0	12,111.1	11,902.8	11,807.1	12,160.4	11,693.3
Pennsylvania grade (included in total domestic crude above)	40.7	39.0	39.3	30.3	34.9	38.9	35.5	37.2	34.3	40.4	40.0	34.1	37.2

Table 14.—Indicated demand for crude petroleum (including lease condensate) in the United States, by State of origin and month

(Thousand barrels)

State	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1971													
Alabama	631	458	623	581	1,013	608	853	564	212	916	953	296	7,708
Alaska	8,510	5,013	7,622	6,384	5,754	8,153	6,773	7,653	6,260	7,283	6,900	5,608	81,913
Arizona	138	115	112	115	112	101	107	80	90	96	86	83	1,235
Arkansas	1,562	1,460	1,566	1,545	1,401	1,566	1,546	1,538	1,473	1,247	1,586	1,601	18,091
California	29,428	28,528	29,995	29,218	30,719	29,421	31,469	29,673	27,384	30,330	27,529	31,424	355,118
Colorado	2,208	1,902	2,296	2,115	1,445	2,081	2,951	2,814	1,798	2,382	2,374	2,734	27,100
Florida	415	456	353	449	462	645	475	512	353	551	420	304	5,395
Illinois	3,383	2,952	3,352	3,954	2,717	3,452	3,270	3,446	3,268	3,028	2,142	3,479	38,443
Indiana	622	505	599	617	458	577	692	535	456	599	550	567	6,777
Kansas	6,511	5,750	7,153	6,394	5,450	7,245	6,906	7,118	6,968	6,640	5,803	6,115	78,053
Kentucky	834	923	931	722	1,004	841	1,010	845	878	775	803	931	10,497
Louisiana	80,705	73,367	82,207	77,876	77,513	80,725	82,094	80,872	73,903	77,983	73,712	79,788	940,745
Michigan	919	919	905	906	1,066	976	911	1,023	916	1,003	1,069	1,233	11,846
Mississippi	5,557	4,912	5,764	5,395	5,156	5,414	5,752	5,878	5,210	4,874	5,243	5,454	64,609
Missouri	6	5	6	5	6	5	6	5	5	6	5	6	66
Montana	3,656	3,126	2,950	3,285	2,351	3,027	3,075	2,791	3,089	2,681	3,004	2,840	35,875
Nebraska	875	1,022	882	839	615	769	964	865	781	716	786	845	9,959
Nevada	5	12	12	11	11	10	8	9	10	9	3	15	115
New Mexico	11,254	10,096	9,749	10,083	9,240	10,300	10,170	9,964	8,790	10,494	9,534	8,894	118,568
New York	98	86	99	85	103	99	101	86	100	97	92	80	1,126
North Dakota	1,939	1,540	1,835	1,684	1,753	1,915	1,863	1,325	2,261	2,137	1,755	1,792	21,799
Ohio	821	601	736	623	637	787	661	546	655	702	693	671	8,133
Oklahoma	18,490	16,893	18,298	18,193	17,881	16,835	18,985	18,961	17,735	17,822	17,284	17,652	215,029
Pennsylvania	297	325	378	223	359	316	311	341	336	376	321	257	3,840
South Dakota	12	11	20	25	25	21	22	17	20	19	22	19	233
Tennessee	34	30	34	33	34	33	34	34	32	34	32	34	398
Texas	108,452	103,251	111,411	105,096	107,366	101,736	104,494	99,959	97,866	102,492	94,511	103,364	1,239,998
Utah	1,982	1,659	1,885	2,148	1,602	2,000	2,123	1,787	2,072	2,532	2,040	1,874	23,704
Virginia												1	1
West Virginia	374	249	247	218	283	270	259	212	235	285	179	292	3,103
Wyoming	11,574	10,945	12,626	11,826	10,899	12,786	13,799	13,908	12,770	12,289	11,874	12,380	147,676
Total domestic crude	301,292	277,111	304,646	290,648	287,435	292,714	301,684	293,361	275,926	290,398	271,305	290,633	3,477,153
Foreign crude	39,346	35,890	41,016	43,428	45,210	50,723	52,340	57,942	57,789	57,123	62,709	63,321	606,897
Grand total 1971	340,638	313,001	345,662	334,076	332,645	343,437	354,024	351,303	333,715	347,521	334,074	353,954	4,084,050
Daily average:													
Domestic crude	9,719.1	9,896.8	9,827.3	9,688.3	9,272.1	9,757.1	9,731.7	9,463.3	9,197.5	9,367.7	9,043.5	9,375.3	9,526.4
Domestic and foreign crude	10,988.3	11,178.6	11,150.4	11,135.9	10,730.5	11,447.9	11,420.1	11,332.4	11,123.8	11,210.4	11,135.8	11,417.9	11,189.1
Pennsylvania grade (included in total domestic above)	1,795	357	1,093	795	1,067	1,108	964	945	1,077	1,131	1,051	1,076	12,459

1972													
Alabama	1,160	647	819	775	893	690	935	833	675	969	887	603	9,886
Alaska	7,560	5,399	5,391	6,170	5,863	6,310	6,422	5,212	6,265	6,167	6,539	4,723	72,021
Arizona	97	81	90	79	86	94	75	91	75	79	92	69	1,008
Arkansas	1,709	1,426	1,581	1,505	1,595	1,509	1,438	1,571	1,542	1,809	1,545	1,485	18,715
California	27,789	28,102	30,476	28,100	29,165	27,340	28,890	31,603	28,268	30,125	27,468	31,253	348,579
Colorado	2,305	2,092	2,339	2,452	2,400	2,477	2,604	2,592	3,031	3,143	3,081	3,433	31,949
Florida	394	636	207	1,139	766	972	1,718	1,557	2,170	1,875	2,351	2,736	16,521
Illinois	3,525	3,152	3,059	3,203	3,102	3,196	3,302	3,294	3,054	3,084	2,760	3,026	37,757
Indiana	653	475	495	499	476	469	340	756	533	547	460	542	6,245
Kansas	6,682	5,923	6,507	5,864	6,636	6,184	6,789	6,792	6,114	6,126	6,384	5,905	75,906
Kentucky	997	1,043	875	664	622	1,021	877	715	784	832	886	664	9,980
Louisiana	76,779	69,919	77,078	70,827	76,520	75,221	76,927	75,213	72,270	75,502	72,959	75,209	894,424
Michigan	1,059	918	1,002	997	891	1,151	1,238	1,207	1,110	1,229	1,156	1,124	13,082
Mississippi	5,166	4,592	4,587	5,362	5,186	5,505	5,170	5,418	5,399	5,224	4,683	5,113	61,405
Missouri	5	5	5	5	5	5	5	5	5	5	5	5	60
Montana	2,574	2,601	2,549	2,869	2,341	3,130	3,157	3,001	3,002	2,682	2,671	2,983	33,560
Nebraska	879	733	966	594	819	655	747	843	789	683	639	742	9,089
Nevada	9	8	9	7	9	8	6	7	9	10	8	11	101
New Mexico	10,054	9,421	9,927	9,552	9,035	8,971	9,357	9,626	9,512	9,034	9,006	9,201	112,696
New York	96	88	92	66	90	93	108	72	81	85	74	73	1,018
North Dakota	1,724	1,691	1,814	1,524	1,849	1,712	1,693	1,575	1,746	1,688	1,773	1,753	20,542
Ohio	881	889	828	639	786	917	852	913	839	692	813	838	9,887
Oklahoma	18,664	17,863	16,530	17,440	17,630	18,271	19,486	17,414	18,037	17,409	16,002	15,616	210,362
Pennsylvania	377	277	268	166	282	312	271	175	270	463	422	260	3,543
South Dakota	14	13	23	20	20	18	17	20	18	20	17	19	219
Tennessee	17	15	17	16	17	16	17	17	16	17	16	17	198
Texas	102,657	96,129	106,309	108,754	107,629	109,258	114,334	114,826	109,248	108,516	105,863	118,346	1,301,869
Utah	2,407	2,002	2,346	2,188	2,179	2,216	2,230	1,829	2,421	2,501	2,226	2,206	26,751
West Virginia	210	124	332	205	186	235	172	267	198	273	232	180	2,614
Wyoming	13,827	11,586	11,411	8,760	12,079	12,502	13,263	13,622	12,016	12,038	10,367	10,974	142,445
Total domestic crude	290,270	267,850	287,932	280,441	289,157	290,458	302,440	301,066	289,497	292,827	281,385	299,109	3,472,432
Foreign crude	64,328	61,310	63,488	57,343	62,990	65,841	65,118	66,222	73,835	76,159	72,828	77,862	807,324
Grand total 1972	354,598	329,160	351,420	337,784	352,147	356,299	367,558	367,288	363,332	368,986	354,213	376,971	4,279,756
Daily average:													
Domestic crude	9,363.5	9,236.2	9,288.1	9,348.0	9,327.7	9,681.9	9,756.1	9,711.8	9,649.9	9,446.0	9,379.5	9,648.7	9,487.5
Domestic and foreign crude	11,438.6	11,350.3	11,336.1	11,259.5	11,359.6	11,876.6	11,856.7	11,848.0	12,111.1	11,902.8	11,807.1	12,160.4	11,693.3
Pennsylvania grade (included in total domestic above)	1,261	1,131	1,219	910	1,083	1,168	1,100	1,154	1,029	1,253	1,261	1,058	13,627

Table 15.—Refinery receipts of domestic

(Thousand

Location of refineries receiving crude oil	Total receipts of domestic crude oil	Intra-state receipts	Interstate Receipts from—						
			PAD district I, total	PAD district II					
				Ill., Ind., Mich.	Kans.	Ky., Ohio, Tenn.	Nebr., N. Dak., S. Dak.	Okla.	Total
District I:									
Delaware, Maryland	3,579	--	3,012	--	--	--	--	--	--
Florida, Georgia, Virginia	1,815	--	--	--	--	--	--	--	--
New Jersey	36,275	--	586	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--
Pennsylvania:									
East	66,018	--	9,978	--	--	--	--	--	--
West	13,842	4,031	2,375	--	71	4,316	--	1,914	6,301
West Virginia	4,468	1,712	--	--	--	2,756	--	--	2,756
Total	125,997	5,743	15,951	--	71	7,072	--	1,914	9,057
District II:									
Illinois	270,061	17,544	--	--	2,390	--	1,103	25,332	28,825
Indiana	169,263	5,395	--	619	7,362	--	3,703	27,461	39,145
Kansas	129,090	68,120	--	--	--	--	186	23,778	23,964
Kentucky, Tennessee	65,927	4,683	94	10,249	--	46	--	--	10,295
Michigan	40,752	12,306	--	1,231	--	--	--	--	1,231
Minnesota, Wisconsin	6,456	--	--	--	--	--	5,230	--	5,230
Missouri, Nebraska	32,820	--	--	--	63	--	400	4,515	4,978
North Dakota	16,182	15,058	--	--	--	--	--	--	--
Ohio:									
East	17,201	1,325	--	1,140	--	--	--	--	1,140
West	130,837	15	--	12,340	--	89	--	55	12,484
Oklahoma	162,819	124,220	--	--	3,379	--	--	--	3,379
Total	1,041,408	248,666	94	25,579	13,194	135	10,622	81,141	130,671
District III:									
Alabama	9,917	1,736	1,874	--	--	--	--	--	--
Arkansas	17,972	13,629	--	--	--	--	--	--	--
Louisiana	508,643	427,085	218	--	--	--	--	27	27
Mississippi	93,513	14,352	--	--	--	--	--	--	--
New Mexico	16,226	16,221	--	--	--	--	--	--	--
Texas	1,089,014	860,768	1,082	--	13	--	--	1,878	1,891
Total	1,735,285	1,333,791	3,174	--	13	--	--	1,905	1,918
District IV:									
Colorado	14,408	2,915	--	--	--	--	--	--	--
Montana	29,792	13,353	--	--	--	--	--	--	--
Utah	41,186	14,210	--	--	--	--	4	--	4
Wyoming	47,029	46,214	--	--	--	--	--	--	--
Total	132,415	76,692	--	--	--	--	4	--	4
District V:									
California	414,708	354,406	--	--	--	--	--	--	--
Other States	21,054	15,609	--	--	--	--	--	--	--
Total	435,762	370,015	--	--	--	--	--	--	--
Total United States	3,470,867	2,034,907	[1] 19,219	25,579	13,278	7,207	10,626	84,960	141,650
Daily average	9,483	5,560	53	70	36	20	29	232	387

[1] Florida, 16,832; New York, 895; Virginia, 1; West Virginia, 1,491.
[2] Alaska, 49,797; Arizona, 1; California, 3,936; Nevada, 52.

crude oil, by State and district in 1972

barrels)

Interstate Receipts from—											
PAD district III					PAD district IV						
Ala., Ark., Miss.	La.	N. Mex.	Tex.	Total	Colo.	Mont.	Utah	Wyo.	Total	PAD district V, total	Total interstate receipts
169	--	--	398	567	--	--	--	--	--	--	3,579
1,792	--	--	23	1,815	--	--	--	--	--	--	1,815
5,031	20,301	--	10,357	35,689	--	--	--	--	--	--	36,275
--	--	--	--	--	--	--	--	--	--	--	--
391	20,425	--	35,224	56,040	--	--	--	--	--	--	66,018
--	--	--	--	--	--	1,135	--	--	1,135	--	9,811
--	--	--	--	--	--	--	--	--	--	--	2,756
7,383	40,726	--	46,002	94,111	--	1,135	--	--	1,135	--	120,254
2,330	85,369	17,250	106,573	211,522	4,313	796	21	7,040	12,170	--	252,517
--	8,810	10,620	67,791	87,221	1,254	7,865	--	28,383	37,502	--	163,868
--	--	919	12,101	13,020	3,290	1,504	--	19,192	23,986	--	60,970
910	47,623	--	1,925	50,458	--	146	--	251	397	--	61,244
--	3,173	--	15,712	18,885	--	--	--	8,330	8,330	--	28,446
--	--	--	--	--	--	1,226	--	--	1,226	--	6,456
--	--	5,208	18,260	23,468	--	--	--	4,374	4,374	--	32,820
--	--	--	--	--	--	1,124	--	--	1,124	--	1,124
--	11,538	--	738	12,276	--	624	--	1,836	2,460	--	15,876
4,469	46,620	1,223	62,631	114,943	--	--	--	3,395	3,395	--	130,822
--	--	561	34,233	34,794	401	--	25	--	426	--	38,599
7,709	203,133	35,781	319,964	566,587	9,258	13,285	46	72,801	95,390	--	792,742
5,202	1,105	--	--	6,307	--	--	--	--	--	--	8,181
--	934	--	3,409	4,343	--	--	--	--	--	--	4,343
16,154	--	--	65,158	81,312	--	--	--	--	--	1	81,558
--	79,161	--	--	79,161	--	--	--	--	--	--	79,161
--	--	--	--	--	--	--	5	--	5	--	5
4,206	158,646	59,604	--	222,456	24	--	2,793	--	2,817	--	228,246
25,562	239,846	59,604	68,567	393,579	24	--	2,798	--	2,822	1	401,494
--	--	--	--	--	--	821	431	10,241	11,493	--	11,493
--	--	--	--	--	--	--	--	16,439	16,439	--	16,439
--	--	15	--	15	15,705	101	--	11,099	26,905	52	26,976
--	--	--	--	--	673	97	45	--	815	--	815
--	--	15	--	15	16,378	1,019	476	37,779	55,652	52	55,723
--	--	83	666	749	--	--	11,265	--	11,265	48,288	60,302
--	--	--	--	--	--	--	--	--	--	5,445	5,445
--	--	83	666	749	--	--	11,265	--	11,265	53,733	65,747
40,654	483,705	95,483	435,199	1,055,041	25,660	15,439	14,585	110,580	166,264	[2] 53,786	1,435,960
111	1,322	261	1,189	2,883	70	42	39	302	453	147	3,923

Table 16.—Crude runs to stills and refinery receipts of crude oil in 1972, by origin of the crude and method of transportation

(Thousand barrels)

District and State	Crude runs to stills	Refinery fuel use and losses	By State of origin of domestic crude	Change in refinery stocks	Refinery receipts of domestic crude— By receiving State and method of transportation: Intrastate: Pipelines	Intrastate: Tank cars and trucks	Intrastate: Tankers and barges	Interstate: Pipelines	Interstate: Tank cars and trucks	Interstate: Tankers and barges	Refinery receipts of foreign crude: Pipelines	Refinery receipts of foreign crude: Tankers and barges
District I:												
Delaware, Maryland	37,911	1	--	−207	--	--	--	--	--	3,579	--	34,126
Florida, Georgia, Virginia	20,297	21	16,833	+205	--	--	--	--	719	1,096	--	18,708
New Jersey	173,409	2	--	−946	--	--	--	--	--	36,275	--	136,190
New York	35,215	--	895	+231	--	--	--	--	--	--	35,446	--
Pennsylvania:												
East	192,169	163	--	−1,221	--	--	--	--	--	66,018	--	125,093
West	19,055	--	4,031	−227	3,715	316	--	7,101	1,286	1,424	4,986	--
West Virginia	4,418	--	3,203	+50	1,656	47	9	2,189	547	20	--	--
Total	[1] 482,474	187	24,962	−2,115	5,371	363	9	9,290	2,552	108,412	40,432	314,117
District II:												
Illinois	299,855	49	42,286	−214	17,424	120	--	252,517	--	--	29,629	--
Indiana	190,663	--	5,395	−318	5,368	27	--	163,854	13	1	21,082	--
Kansas	133,329	73	81,398	−622	66,014	2,106	--	60,952	18	--	3,690	--
Kentucky, Tennessee	67,034	34	4,784	−91	3,195	665	823	42,798	24	18,422	1,050	--
Michigan	58,447	11	13,143	+74	9,595	2,711	--	28,446	--	--	17,780	--
Minnesota, Wisconsin	64,365	--	--	+97	--	--	--	6,456	--	--	58,006	--
Missouri, Nebraska	33,766	--	5,370	−83	--	--	--	32,697	123	--	863	--
North Dakota	18,967	--	20,314	+81	14,978	80	--	1,124	--	--	2,866	--
Ohio:												
East	19,608	--	1,325	+4	1,159	166	--	15,876	--	--	2,411	--
West	[2] 162,805	56	7,121	−322	--	15	--	130,822	--	--	[2] 31,702	--
Oklahoma	162,909	77	209,180	−167	120,994	3,226	--	38,599	--	--	--	--
Total	1,211,748	300	390,316	−1,561	238,727	9,116	823	774,141	178	18,423	169,079	--
District III:												
Alabama	9,791	60	8,122	+66	--	29	1,707	240	14	7,927	--	--
Arkansas	18,014	6	14,894	−48	12,797	832	--	4,245	98	--	--	--
Louisiana	511,757	27	910,790	+972	345,842	6,222	75,021	66,550	795	14,213	--	4,113
Mississippi	94,159	6	47,355	+15	12,319	2,033	--	79,161	--	--	--	667
New Mexico	16,261	33	111,704	−68	13,181	3,040	--	--	5	--	--	--
Texas	1,112,960	152	1,295,967	−546	817,647	8,719	34,402	133,030	64	95,152	484	23,068
Total	1,762,942	284	2,388,832	+391	1,201,786	20,875	111,130	283,226	976	117,292	484	27,848

District IV:												
Colorado	14,392	18	28,575	+177	61	2,854	--	11,366	127	--	179	--
Montana	41,049	13	28,792	+259	12,609	744	--	16,439	--	--	[3] 11,529	--
Utah	41,229	1	28,795	-44	8,154	6,056	--	25,860	1,116	--	--	--
Wyoming	48,745	--	156,794	+146	45,422	792	--	623	192	--	1,862	--
Total	145,415	32	242,956	+538	66,246	10,446	--	54,288	1,435	--	13,570	--
District V:												
California	542,190	269	358,342	+1,112	304,303	6,722	43,381	10,832	516	48,954	--	128,863
Other States [4]	136,094	41	65,459	-1,153	15,609	--	--	--	--	5,445	94,209	19,719
Total	678,284	310	423,801	-41	319,912	6,722	43,381	10,832	516	54,399	94,209	148,582
Total United States	4,280,863	1,113	3,470,867	-2,788	1,832,042	47,522	155,343	1,131,777	5,657	298,526	[5] 317,774	490,547
Daily average	11,696	3	9,483	-8	5,006	130	424	3,092	15	816	868	1,340

[1] Includes 283,279,000 barrels in Delaware River Valley.
[2] Includes some Athabasca hydrocarbons.
[3] Includes three by trucks.
[4] Alaska, Arizona, Hawaii, Nevada, Oregon and Washington.
[5] Excludes crude oil imported for direct fuel use by pipeline.

Table 17.—Transportation of petroleum products by pipelines in the United States in 1972, by month

(Thousand barrels)

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	1971 total
Turned into lines:														
Gasoline:														
Motor	126,801	118,175	130,437	128,361	141,217	141,766	143,890	148,173	140,813	139,236	135,001	138,326	1,632,196	1,468,681
Aviation	474	244	401	245	369	347	327	285	460	378	311	176	4,017	4,106
Total gasoline	127,275	118,419	130,838	128,606	141,586	142,113	144,217	148,458	141,273	139,614	135,312	138,502	1,636,213	1,472,787
Jet fuel:														
Naphtha type	1,610	1,720	2,037	1,767	1,683	1,452	1,321	1,440	1,143	1,417	1,336	1,478	18,404	24,967
Kerosine type	17,801	16,206	18,122	16,616	16,386	17,157	17,693	17,606	17,483	17,521	18,624	18,857	210,072	182,134
Total jet fuel	19,411	17,926	20,159	18,383	18,069	18,609	19,014	19,046	18,626	18,938	19,960	20,335	228,476	207,101
Kerosine	5,822	4,856	4,763	2,888	4,003	2,482	2,755	2,939	3,257	3,778	4,011	5,945	47,499	52,095
Distillate fuel oil	60,486	60,202	54,647	46,940	49,897	47,513	49,297	51,606	50,131	55,774	60,863	69,442	656,798	585,235
Natural gas liquids	31,408	31,866	32,309	29,997	31,976	31,553	32,433	33,610	32,710	36,276	36,361	38,677	399,176	340,590
Delivered from lines:														
Gasoline:														
Motor	123,402	117,187	129,933	127,718	142,583	143,576	144,520	150,249	139,551	141,586	134,671	139,949	1,634,925	1,462,852
Aviation	479	264	291	234	307	377	294	308	352	404	340	181	3,831	3,964
Total gasoline	123,881	117,451	130,224	127,952	142,890	143,953	144,814	150,557	139,903	141,990	135,011	140,130	1,638,756	1,466,816
Jet fuel:														
Naphtha type	1,441	1,865	1,923	1,752	1,609	1,574	1,364	1,381	1,143	1,434	1,363	1,414	18,263	24,825
Kerosine type	18,177	15,819	18,085	16,389	15,940	16,615	16,889	17,552	16,966	17,664	19,150	18,808	208,054	179,911
Total jet fuel	19,618	17,684	20,008	18,141	17,549	18,189	18,253	18,933	18,109	19,098	20,513	20,222	226,317	204,736
Kerosine	5,773	5,360	4,748	3,026	4,143	1,873	2,445	2,424	3,260	3,658	4,090	5,332	46,132	51,202
Distillate fuel oil	62,930	63,149	58,997	48,056	48,702	46,016	46,640	47,984	50,455	53,185	60,620	72,675	659,409	583,230
Natural gas liquids	32,996	32,586	32,795	29,425	31,429	30,987	32,467	32,908	31,149	35,800	36,618	38,166	397,326	338,796
Shortage or overage: [1]														
Gasoline:														
Motor	(429)	(236)	(85)	(7)	(396)	(129)	93	(69)	30	(383)	(246)	(335)	(2,192)	(1,418)
Aviation	21	16	(4)	34	4	39	7	(5)	8	29	26	(4)	171	133
Total gasoline	(408)	(220)	(89)	27	(392)	(90)	100	(74)	38	(354)	(220)	(339)	(2,021)	(1,285)
Jet fuel:														
Naphtha type	(19)	8	5	20	25	(15)	2	(4)	(3)	(4)	(6)	(19)	(10)	83
Kerosine type	276	24	31	165	33	198	926	(586)	83	372	121	143	1,786	1,185
Total jet fuel	257	32	36	185	58	183	928	(590)	80	368	115	124	1,776	1,268
Kerosine	174	92	106	96	264	70	(586)	359	168	56	75	165	1,539	1,356
Distillate fuel oil	(262)	(109)	(221)	(61)	(104)	47	359	316	(54)	203	(231)	(235)	(352)	(212)
Natural gas liquids	49	338	6	182	(119)	(88)	11	(70)	12	168	28	63	580	841

Stocks in lines and working tanks at end of month:														
Gasoline:														
Motor	48,161	49,385	49,974	50,624	49,654	47,973	47,250	45,243	46,475	44,508	45,084	43,796	43,796	44,333
Aviation	152	116	230	207	265	196	222	204	304	249	194	193	193	178
Total gasoline	48,313	49,501	50,204	50,831	49,919	48,169	47,472	45,447	46,779	44,757	45,278	43,989	43,989	44,511
Jet fuel:														
Naphtha type	738	585	694	689	738	631	586	649	652	639	618	701	701	550
Kerosine type	4,221	4,584	4,590	4,652	5,065	5,409	5,287	5,927	6,361	5,846	5,199	5,105	5,105	4,873
Total jet fuel	4,959	5,169	5,284	5,341	5,803	6,040	5,873	6,576	7,013	6,485	5,817	5,806	5,806	5,423
Kerosine	2,495	1,899	1,808	1,574	1,170	1,709	2,605	2,261	2,090	2,154	2,000	2,448	2,448	2,620
Distillate fuel oil	25,622	22,784	18,655	17,600	18,899	20,349	22,647	25,953	25,683	28,069	28,543	25,545	25,545	27,804
Natural gas liquids	13,288	12,230	11,738	12,128	12,794	13,448	13,403	14,175	15,724	16,032	15,747	16,195	16,195	14,925

[1] Figures in parentheses denote shortage.

Table 18.—Transportation of petroleum products by pipeline between PAD districts in the United States in 1972, by month

(Thousand barrels)

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	1971 total
From District I to District II:														
Gasoline:														
Motor	2,789	2,633	2,646	3,110	3,366	3,342	3,878	3,389	3,637	3,253	3,535	3,609	39,187	33,492
Aviation	7	6	4	--	10	8	4	6	--	--	7	--	52	52
Total gasoline	2,796	2,639	2,650	3,110	3,376	3,350	3,882	3,395	3,637	3,253	3,542	3,609	39,239	33,544
Jet fuel:														
Naphtha type	100	114	67	44	78	48	43	21	--	--	--	91	601	609
Kerosine type	122	156	142	33	60	41	68	97	141	247	215	188	1,510	1,025
Total jet fuel	222	270	209	77	133	89	111	118	141	247	215	279	2,111	1,684
Kerosine	93	61	75	34	18	24	32	48	18	60	37	46	546	787
Distillate fuel oil	758	653	732	614	568	861	810	923	803	1,011	1,042	1,056	9,831	7,741
From District II to District I:														
Gasoline (motor)	907	858	1,052	1,037	1,039	1,045	1,055	901	979	777	819	807	11,276	10,767
Jet fuel (kerosine type)	12	--	40	--	26	--	33	--	--	--	--	--	111	112
Kerosine	15	25	27	--	--	8	1	--	--	--	--	--	76	--
Distillate fuel oil	53	104	86	59	51	65	63	51	50	62	58	93	795	934
Natural gas liquids	890	449	944	838	645	808	1,061	472	1,020	1,101	961	757	9,946	10,673
From District II to District III:														
Gasoline (motor)	1,783	1,439	1,569	1,484	1,549	1,552	1,540	1,567	1,560	1,629	1,730	1,648	19,000	19,426
Jet fuel:														
Naphtha type	74	5	--	79	40	40	40	40	40	40	40	80	518	606
Kerosine type	--	--	--	--	1	--	--	1	1	--	--	1	4	5
Total jet fuel	74	5	--	79	41	40	40	41	41	40	40	81	522	611
Distillate fuel oil	235	427	396	465	363	338	337	457	466	440	286	382	4,592	4,256
Natural gas liquids	187	226	231	224	218	219	228	207	209	227	237	227	2,640	3,026
From District III to District I:														
Gasoline:														
Motor	21,929	20,963	24,479	26,416	27,569	26,449	27,049	28,465	25,701	27,969	24,252	25,611	306,852	286,026
Aviation	42	25	43	5	26	42	14	16	8	30	42	14	307	353
Total gasoline	21,971	20,988	24,522	26,421	27,595	26,491	27,063	28,481	25,709	27,999	24,294	25,625	307,159	286,379
Jet fuel:														
Naphtha type	90	131	121	112	151	58	45	40	16	100	102	101	1,067	1,574
Kerosine type	4,019	3,771	4,275	3,612	3,481	3,443	3,545	4,242	3,803	4,440	4,764	4,870	48,265	39,620
Total jet fuel	4,109	3,902	4,396	3,724	3,632	3,501	3,590	4,282	3,819	4,540	4,866	4,971	49,332	41,194
Kerosine	2,103	1,574	1,176	824	792	403	593	687	935	1,248	1,191	1,433	12,959	14,646
Distillate fuel oil	16,393	17,232	15,986	12,806	13,111	13,971	13,444	13,938	14,294	13,832	16,236	18,250	179,493	155,534
Natural gas liquids	1,731	2,122	1,252	682	649	1,029	1,133	1,420	1,121	1,474	1,754	2,236	16,603	14,705

From District III to District II:														
Gasoline:														
Motor	3,284	4,368	4,922	4,870	5,016	6,115	5,240	5,585	4,919	5,383	3,746	3,941	57,389	48,708
Aviation	77	28	72	205	109	72	103	66	169	114	118	66	1,199	1,246
Total gasoline	3,361	4,396	4,994	5,075	5,125	6,187	5,343	5,651	5,088	5,497	3,864	4,007	58,588	49,954
Jet fuel:														
Naphtha type	--	--	--	--	--	--	4	--	--	--	--	--	4	5
Kerosine type	421	354	343	314	343	464	368	529	531	525	463	301	4,956	3,115
Total jet fuel	421	354	343	314	343	464	372	529	531	525	463	301	4,960	3,120
Kerosine	298	338	148	116	64	185	26	65	253	--	110	138	1,741	3,026
Distillate fuel oil	2,340	1,291	954	682	766	836	621	1,153	1,133	1,091	1,382	948	13,197	11,593
Natural gas liquids	5,184	5,423	4,338	4,154	4,444	3,944	4,591	4,447	4,889	5,498	7,538	9,289	63,739	49,904
From District III to District IV:														
Gasoline:														
Motor	200	202	248	408	345	443	473	436	355	333	325	376	4,144	5,271
Aviation	15	16	20	19	16	22	20	24	19	21	16	18	226	225
Total gasoline	215	218	268	427	361	465	493	460	374	354	341	394	4,370	5,496
Jet fuel (kerosine type)	316	329	342	313	222	349	352	376	349	341	321	375	3,985	3,606
Kerosine	2	2	1	1	5	--	--	1	1	1	1	5	20	27
Distillate fuel oil	41	30	30	42	39	45	45	55	53	51	58	63	552	669
Natural gas liquids	191	150	73	64	56	36	39	49	66	68	163	204	1,159	1,156
From District III to District V:														
Gasoline (motor)	865	1,008	1,035	1,087	944	1,052	931	1,097	818	842	799	1,065	11,543	10,943
Jet fuel:														
Naphtha type	62	113	93	89	112	179	62	136	78	101	79	73	1,177	2,799
Kerosine type	231	141	180	166	176	152	170	137	163	113	160	149	1,938	2,179
Total jet fuel	293	254	273	255	288	331	232	273	241	214	239	222	3,115	4,978
Distillate fuel oil	321	279	308	260	439	338	397	277	332	310	301	288	3,850	3,690
From District IV to District II:														
Gasoline (motor)	264	322	335	307	375	458	478	610	417	413	362	338	4,679	4,240
Jet fuel (naphtha type)	40	39	53	66	41	28	65	42	39	50	52	73	588	501
Kerosine	6	2	2	8	5	6	2	4	4	4	4	5	52	51
Distillate fuel oil	286	265	314	266	303	290	321	242	322	249	270	262	3,390	3,206
From District IV to District V:														
Gasoline (motor)	792	801	732	833	952	843	775	805	552	754	738	673	9,250	10,358
Jet fuel:														
Naphtha type	103	116	177	117	148	47	48	31	7	45	17	24	880	1,260
Kerosine type	55	42	39	44	38	47	15	38	45	27	14	41	445	699
Total jet fuel	158	158	216	161	186	94	63	69	52	72	31	65	1,325	1,959
Distillate fuel oil	408	409	341	391	384	328	353	397	369	312	260	318	4,270	5,453

Table 19.—Pipeline tariff rates for crude petroleum and products, January 1

(Cents per barrel)

Origin	Destination	1972	1973
Crude oil:			
West Texas	Houston, Tex	$0.13–$0.16	$0.15–$0.18
Do	East Chicago, Ind	.28	.28
Do	Wood River, Ill	.28	.28
Oklahoma	Chicago, Ill	.22	.22
Do	Wood River, Ill	.19	.19
East Wyoming	Chicago, Ill	.35	.35
Do	Wood River, Ill	.32	.32
Refined products:			
Houston, Texas	Atlanta, Ga	.36	.36
Do	New York, N.Y	.31	.32
Tulsa, Oklahoma	Minneapolis, Minn	.68	.74
Salt Lake City, Utah	Spokane, Wash	.52	.54
Philadelphia, Pennsylvania	Rochester, N.Y	.24	.24

Source: Interstate Commerce Commission.

Table 20.—Receipts of domestic and foreign crude petroleum at refineries in the United States

(Million barrels)

Method of transportation	1968	1969	1970	1971	1972 p
By water:					
Intrastate	136.8	138.0	148.2	160.9	155.4
Interstate	428.8	408.8	461.8	430.0	298.5
Foreign	303.0	314.7	244.0	352.6	490.5
Total by water	868.6	861.5	854.0	943.5	944.4
By pipeline:					
Intrastate	1,673.0	1,715.1	1,730.5	1,702.2	1,832.0
Interstate	1,023.7	1,054.9	1,109.4	1,132.3	1,131.8
Foreign	169.2	199.2	236.8	260.4	317.8
Total by pipeline	2,865.9	2,969.2	3,076.7	3,094.9	3,281.6
By tank cars and trucks:					
Intrastate	40.8	41.8	37.1	37.0	47.5
Interstate	6.8	6.0	5.5	5.4	5.7
Foreign	--	--	--	--	--
Total by tank cars and trucks	47.6	47.8	42.6	42.4	53.2
Grand total	3,782.1	3,878.5	3,973.3	4,080.8	4,279.2

p Preliminary.

Table 21.—Interdistrict movements by tanker and barge of crude oil and petroleum products in 1972, by month

(Thousand barrels)

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Gulf coast to east coast, total: [1]													
Crude oil	11,978	6,954	8,749	9,447	9,575	9,078	10,411	7,424	7,617	6,038	10,735	8,888	106,894
Unfinished oils	2,139	1,835	1,493	1,808	2,107	2,030	2,382	4,500	2,262	1,447	1,000	2,260	25,263
Gasoline:													
Motor	21,543	17,319	18,685	18,590	19,070	16,940	17,381	19,097	17,838	17,681	17,324	19,503	220,966
Aviation	488	268	284	377	301	227	227	380	224	628	290	353	4,047
Total gasoline	22,031	17,587	18,969	18,967	19,371	17,167	17,608	19,477	18,057	18,309	17,614	19,856	225,013
Special naphthas	266	575	617	488	704	526	604	749	648	609	601	493	6,830
Kerosine	2,231	1,814	1,942	1,170	1,397	1,634	1,443	1,181	1,613	1,844	1,654	2,059	19,982
Distillate fuel oil	16,395	13,167	13,553	12,228	10,897	8,639	6,480	6,595	7,854	10,768	10,379	14,144	131,099
Residual fuel oil	2,644	2,346	3,229	2,724	2,399	1,977	2,159	2,783	2,411	2,460	3,185	2,072	30,389
Jet fuel:													
Naphtha type	1,559	1,264	1,517	905	1,151	1,409	1,470	707	867	514	750	410	12,523
Kerosine type	3,284	2,768	3,046	2,789	3,048	2,366	2,157	2,248	2,636	3,099	2,208	3,141	32,790
Total jet fuel	4,843	4,032	4,563	3,694	4,199	3,775	3,627	2,955	3,503	3,613	2,958	3,551	45,313
Lubricating oil	724	914	941	931	1,106	945	1,106	983	984	1,098	989	743	11,464
Wax	98	61	82	89	102	132	91	72	127	52	30	10	896
Asphalt and road oil	363	348	538	546	587	397	618	432	465	545	367	356	5,562
Liquefied gases	180	146	204	163	111	79	125	61	117	132	193	154	1,665
Petrochemical feedstocks	240	192	189	182	239	217	237	281	251	323	148	232	2,731
Other products	90	143	166	79	138	106	141	114	125	119	88	111	1,420
Total	64,222	50,114	55,185	52,466	52,932	46,702	47,032	47,607	46,034	47,357	49,941	54,929	614,521
Gulf coast to PAD District II:													
Crude oil	1,676	1,554	1,614	1,574	1,525	1,397	1,699	1,657	1,266	1,575	1,508	1,377	18,422
Unfinished oils	4	5	10	--	9	10	4	4	4	8	9	18	85
Gasoline:													
Motor	3,060	2,838	3,554	3,278	2,956	2,828	3,778	3,546	3,809	3,847	2,575	2,968	39,037
Aviation	36	52	47	90	54	37	64	53	75	41	38	22	609
Total gasoline	3,096	2,890	3,601	3,368	3,010	2,865	3,842	3,599	3,884	3,888	2,613	2,990	39,646
Special naphthas	176	265	300	308	314	252	222	216	273	199	228	261	3,014
Kerosine	293	169	189	121	112	138	40	70	139	72	165	135	1,643
Distillate fuel oil	1,036	898	1,001	1,080	815	922	853	1,088	854	920	666	819	10,952
Residual fuel oil	196	752	573	331	355	485	671	1,013	674	745	800	812	7,407

See footnote at end of table.

Table 21.—Interdistrict movements by tanker and barge of crude oil and petroleum products in 1972, by month—Continued

(Thousand barrels)

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Gulf coast to PAD District II—Continued													
Jet fuel:													
Naphtha type	--	9	--	--	19	18	--	11	18	7	18	--	100
Kerosine type	689	441	432	725	463	224	380	552	235	209	205	255	4,810
Total jet fuel	689	450	432	725	482	242	380	563	253	216	223	255	4,910
Lubricating oil	137	174	248	354	207	358	279	304	315	277	279	250	3,182
Asphalt and road oil	65	13	20	159	351	231	310	384	274	221	91	46	2,165
Liquefied gases	117	113	116	57	--	57	--	1	157	1	113	61	793
Petrochemical feedstocks	65	107	203	353	445	99	124	79	47	166	54	166	1,908
Other products	52	39	54	80	84	127	47	85	55	36	75	98	832
Total	7,602	7,429	8,361	8,510	7,709	7,183	8,471	9,063	8,195	8,324	6,824	7,288	94,959
Gulf coast to west coast:													
Crude oil	392	274	--	--	--	--	--	--	--	--	--	--	666
Unfinished oils	--	--	--	--	--	--	--	--	--	--	--	152	152
Motor gasoline	29	444	--	--	--	211	315	--	201	--	73	--	1,273
Kerosine	--	--	1	--	--	--	--	--	--	40	24	--	65
Distillate fuel oil	--	--	--	--	--	--	--	--	--	--	98	--	98
Jet fuel (naphtha type)	--	--	--	--	--	134	--	--	--	--	--	--	134
Lubricating oil	21	200	145	20	229	73	118	107	235	--	358	80	1,586
Petrochemical feedstocks	--	17	17	--	--	--	4	--	7	--	7	--	52
Other products	--	--	--	--	6	--	1	--	--	--	--	--	7
Total	442	935	163	20	235	418	438	107	443	40	560	232	4,033
West coast to east coast:													
Residual fuel oil	--	--	--	--	--	--	160	--	--	--	--	--	160
Lubricating oil	67	65	31	99	106	21	73	90	26	28	63	24	693
Other products	29	--	--	--	26	--	--	27	--	--	--	--	82
Total	96	65	31	99	132	21	233	117	26	28	63	24	935

[1] Breakdown by region shown in table 22.

Table 22.—Tanker and barge movements of crude oil and petroleum products from the Gulf coast to the east coast, by region in 1972, by month

(Thousand barrels)

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
To New England:													
Gasoline:													
Motor	3,333	2,441	3,715	3,539	3,647	2,524	3,518	3,800	2,771	3,574	3,050	3,600	39,512
Aviation	21	27	14	58	66	18	21	31	33	34	5	116	444
Total gasoline	3,354	2,468	3,729	3,597	3,713	2,542	3,539	3,831	2,804	3,608	3,055	3,716	39,956
Special naphthas	--	75	26	30	30	19	41	61	28	69	17	51	447
Kerosine	439	465	361	258	289	137	218	337	134	331	318	343	3,630
Distillate fuel oil	6,158	6,208	5,762	4,699	4,793	2,721	2,602	3,245	2,526	3,814	3,658	6,763	52,949
Residual fuel oil	794	894	1,183	744	494	385	566	595	811	340	1,652	677	9,135
Jet fuel:													
Naphtha type	242	221	100	88	195	26	178	309	176	63	348	64	2,010
Kerosine type	385	376	213	267	328	166	298	574	504	302	361	534	4,308
Total jet fuel	627	597	313	355	523	192	476	883	680	365	709	598	6,318
Lubricating oil	18	17	13	7	33	--	26	13	11	13	42	35	228
Petrochemical feedstocks	68	10	63	10	15	22	76	25	13	35	41	119	497
Other products	--	1	1	--	--	--	1	--	--	--	--	--	3
Total New England	11,458	10,735	11,451	9,700	9,890	6,018	7,545	8,990	7,007	8,575	9,492	12,302	113,163
To Central Atlantic:[1]													
Crude oil	11,888	6,855	8,692	9,388	9,497	9,038	10,286	7,365	7,504	5,997	10,708	8,840	106,058
Unfinished oils	2,139	1,835	1,493	1,808	2,066	2,030	2,382	4,500	2,262	1,447	1,000	2,260	25,222
Gasoline:													
Motor	7,949	6,027	5,400	5,207	5,779	5,765	5,297	5,914	4,987	5,339	5,641	6,013	69,318
Aviation	38	60	59	99	51	105	30	183	53	164	84	80	1,006
Total gasoline	7,987	6,087	5,459	5,306	5,830	5,870	5,327	6,097	5,040	5,503	5,725	6,093	70,324
Special naphthas	195	330	455	223	481	222	349	500	527	396	427	335	4,440
Kerosine	986	520	973	497	417	540	294	350	495	838	798	807	7,515
Distillate fuel oil	7,985	4,589	5,624	5,260	2,722	3,034	1,296	1,207	2,721	4,587	4,098	5,194	48,317
Residual fuel oil	1,560	1,274	1,092	1,303	1,290	1,131	1,141	1,521	979	1,765	1,089	865	15,010
Jet fuel:													
Naphtha type	188	100	83	26	--	194	390	--	240	257	--	12	1,490
Kerosine type	877	1,179	1,181	723	990	370	411	632	736	861	790	805	9,555
Total jet fuel	1,065	1,279	1,264	749	990	564	801	632	976	1,118	790	817	11,045
Lubricating oil	613	753	798	747	949	756	885	852	755	910	816	569	9,403
Wax	98	61	32	89	73	132	91	72	127	52	30	7	864
Asphalt and road oil	--	29	33	31	33	--	34	45	30	26	--	--	261
Petrochemical feedstocks	144	62	78	79	131	65	88	151	124	120	72	62	1,176
Other products	56	67	68	43	63	64	69	78	80	59	37	38	722
Total Central Atlantic	34,716	23,741	26,061	25,523	24,542	23,446	23,043	23,370	21,620	22,818	25,590	25,887	300,357

See footnote at end of table.

Table 22.—Tanker and barge movements of crude oil and petroleum products from the Gulf coast to the east coast, by region in 1972, by month—Continued

(Thousand barrels)

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
To Lower Atlantic:													
Crude oil	90	99	57	59	78	40	125	59	113	41	27	48	836
Unfinished oils	--	--	--	--	41	--	--	--	--	--	--	--	41
Gasoline:													
Motor	10,261	8,851	9,570	9,844	9,644	8,651	8,566	9,388	10,075	8,768	8,633	9,890	112,136
Aviation	429	181	211	220	184	104	176	166	138	430	201	157	2,597
Total	10,690	9,032	9,781	10,064	9,828	8,755	8,742	9,549	10,213	9,198	8,834	10,047	114,733
Special naphthas	71	170	136	185	193	285	214	188	93	144	157	107	1,943
Kerosine	806	829	608	415	691	957	931	494	984	675	538	909	8,837
Distillate fuel oil	2,252	2,370	2,167	2,269	3,382	2,884	2,582	2,143	2,607	2,367	2,623	2,187	29,833
Residual fuel oil	290	178	954	677	615	461	452	667	621	355	444	530	6,244
Jet fuel:													
Naphtha type	1,129	943	1,334	791	956	1,189	902	398	451	194	402	334	9,023
Kerosine type	2,022	1,213	1,652	1,799	1,730	1,830	1,448	1,042	1,396	1,936	1,057	1,802	18,927
Total	3,151	2,156	2,986	2,590	2,686	3,019	2,350	1,440	1,847	2,130	1,459	2,136	27,950
Lubricating oil	93	144	130	177	124	189	195	118	218	175	131	139	1,833
Wax	--	--	--	--	29	--	--	--	--	--	--	3	32
Asphalt and road oil	363	319	505	515	554	397	584	387	435	519	367	356	5,301
Liquefied gases	180	146	204	163	111	79	125	61	117	132	193	154	1,665
Petrochemical feedstocks	28	120	48	93	93	130	73	105	114	168	35	51	1,058
Other products	34	75	97	36	75	42	71	36	45	60	51	73	695
Total Lower Atlantic	18,048	15,638	17,673	17,243	18,500	17,238	16,444	15,247	17,407	15,964	14,859	16,740	201,001

[1] Includes data formerly shown as barge movements to District I.

Table 23.—Stocks of crude petroleum, natural gas liquids, and refined products in the United States at yearend

(Thousand barrels)

	1968	1969	1970	1971	1972
Crude petroleum:					
At refineries	78,718	76,088	80,407	73,115	70,327
Pipeline and tank farm	177,133	172,252	181,580	172,309	162,476
Producers	16,342	16,887	14,380	14,224	13,592
Total crude petroleum	272,193	265,227	276,367	259,648	246,395
Unfinished oils	93,399	97,819	98,989	100,574	94,761
Natural gasoline, plant condensate, and isopentane	5,466	5,704	7,046	6,176	6,075
Refined products	628,514	611,373	635,459	677,549	611,748
Grand total	999,572	980,123	1,017,861	1,043,947	958,979

Table 24.—Stocks of crude petroleum in the United States in 1972, by State of origin and month

(Thousand barrels)

State of origin	Jan. 1	Jan. 31	Feb. 29	Mar. 31	Apr. 30	May 31	June 30	July 31	Aug. 31	Sept. 30	Oct. 31	Nov. 30	Dec. 31
Alabama	715	285	335	298	307	252	380	337	411	615	528	498	763
Alaska	4,899	3,262	3,311	4,181	4,077	4,442	4,217	4,071	4,918	4,536	4,493	3,900	5,271
Arizona	99	91	93	90	91	91	80	92	90	101	101	73	84
Arkansas	859	671	708	697	715	702	724	870	876	860	639	595	663
California	26,937	28,546	28,203	27,242	27,734	28,206	29,337	29,868	27,744	27,864	27,054	27,872	25,380
Colorado	2,844	2,778	2,901	3,007	2,945	3,132	3,178	3,215	3,383	3,220	2,943	3,020	2,910
Florida	294	432	350	764	583	995	1,149	928	1,145	929	976	826	670
Illinois	5,787	5,460	5,182	5,194	4,819	4,761	4,477	4,034	3,716	3,431	3,216	3,254	2,904
Indiana	387	348	356	386	358	404	430	593	381	360	347	369	272
Kansas	7,766	7,288	7,524	7,611	7,943	7,820	7,819	7,184	6,664	6,530	6,482	5,800	5,604
Kentucky	1,031	854	605	585	699	946	751	683	814	802	782	675	753
Louisiana	33,028	32,271	32,649	31,790	34,478	35,089	33,249	31,711	31,933	32,663	32,492	31,895	30,431
Michigan	597	593	592	584	608	794	719	602	570	618	607	549	505
Mississippi	4,128	3,979	4,147	4,755	4,559	4,679	4,282	4,363	4,178	3,743	3,602	3,814	3,823
Montana	3,020	3,175	3,198	3,537	3,491	4,056	3,745	3,488	3,342	3,115	3,324	3,451	3,364
Nebraska	918	833	843	653	814	758	825	802	678	575	602	625	534
Nevada	2	1	1	1	1	1	1	1	1	1	1	1	1
New Mexico	8,213	7,823	7,470	7,142	6,934	7,425	7,442	7,372	7,032	6,379	6,524	6,333	6,042
New York	30	30	30	30	30	30	30	30	30	30	30	30	30
North Dakota	1,387	1,417	1,380	1,357	1,526	1,405	1,391	1,428	1,575	1,525	1,574	1,486	1,469
Ohio	1,350	1,339	1,258	1,235	1,305	1,307	1,189	1,122	1,075	957	1,020	928	821
Oklahoma	15,873	14,905	15,059	15,993	15,474	15,917	14,758	13,239	12,533	11,604	11,360	11,338	13,144
Pennsylvania	769	681	670	664	758	780	757	769	896	905	767	639	667
Texas	93,304	90,288	92,536	95,649	95,583	101,025	100,426	98,209	95,535	94,731	98,434	100,641	93,120
Utah	2,558	2,347	2,460	2,396	2,412	2,380	2,402	2,365	2,818	2,672	2,452	2,508	2,377
West Virginia	539	551	636	547	561	604	609	657	627	644	595	577	602
Wyoming	17,258	16,117	16,767	18,255	20,786	20,476	19,298	17,577	15,537	14,844	14,411	14,567	14,824
Total domestic crude	284,092	226,365	229,264	234,643	239,591	248,477	243,665	235,610	228,502	224,254	225,356	226,764	217,028
Foreign crude:													
Districts I–IV	15,728	16,028	15,910	15,223	16,732	19,085	17,400	19,015	18,032	16,102	18,694	15,098	18,654
District V	9,828	8,619	7,771	9,036	10,313	11,928	10,316	11,218	11,442	10,446	9,698	9,444	10,713
Total foreign crude	25,556	24,647	23,681	24,259	27,045	31,013	27,716	30,233	29,474	26,548	28,392	24,542	29,367
Total crude stocks	259,648	251,012	252,945	258,902	266,636	279,490	271,381	265,843	257,976	250,802	253,748	251,306	246,395
Pennsylvania grade (included in total domestic crude)	2,158	2,129	2,153	2,055	2,158	2,195	2,154	2,162	2,154	2,141	1,985	1,740	1,707

Table 25.—Stocks of crude petroleum in the United States in 1972, by State and month

(Thousand barrels)

State	Jan. 1	Jan. 31	Feb. 29	Mar. 31	Apr. 30	May 31	June 30	July 31	Aug. 31	Sept. 30	Oct. 31	Nov. 30	Dec. 31
Alabama	879	564	643	868	1,086	856	903	673	814	747	791	635	854
Alaska	1,076	626	441	883	887	538	373	592	734	541	789	765	1,020
Arizona	447	448	448	448	446	445	445	444	446	445	445	447	444
Arkansas	1,195	1,201	1,314	1,215	1,214	1,212	1,237	1,383	1,451	1,368	1,146	1,106	999
California, Nevada, Oregon, Washington	40,552	39,584	39,229	39,354	40,737	43,894	43,257	44,615	43,482	42,171	39,993	40,469	40,133
Colorado	1,590	1,413	1,651	1,680	1,811	1,929	1,907	1,987	1,953	1,988	1,780	1,753	1,863
Florida, Georgia, South Carolina, Virginia	1,117	984	1,474	1,033	1,408	1,623	1,182	1,143	1,634	976	1,102	733	1,377
Hawaii	453	1,127	781	1,143	1,290	914	917	678	838	901	1,141	657	717
Illinois	17,181	17,151	16,538	16,737	19,229	20,088	18,285	16,871	16,035	15,497	16,275	16,243	16,084
Indiana	4,034	4,000	3,697	3,621	3,405	3,929	3,862	3,819	3,647	3,498	3,236	3,163	3,427
Iowa, Missouri	6,676	6,115	6,357	6,154	6,329	6,711	6,978	5,961	5,960	5,813	6,094	6,407	6,188
Kansas	11,101	10,303	10,275	10,316	11,645	11,186	11,429	10,818	9,928	9,794	9,376	9,232	9,228
Kentucky, Tennessee	4,726	4,742	4,434	4,407	4,238	4,939	4,638	4,611	4,658	4,377	4,481	4,446	4,189
Louisiana	17,990	16,884	17,703	17,867	19,562	20,752	19,748	18,456	20,654	18,597	18,864	18,920	18,893
Maryland	382	418	387	479	413	497	435	439	364	226	278	295	262
Massachusetts, Delaware, Rhode Island	697	996	580	421	709	1,386	1,398	1,522	1,258	638	548	979	610
Michigan	1,578	1,663	1,647	2,013	2,376	2,617	2,417	2,505	2,635	2,899	3,138	2,161	2,734
Minnesota, Wisconsin	2,090	2,061	2,192	2,168	2,375	2,526	2,447	2,083	2,086	1,816	2,205	2,288	2,127
Mississippi	5,448	5,483	5,658	5,924	5,769	5,552	5,668	5,645	5,245	5,299	5,357	5,183	5,708
Montana	2,485	2,512	2,710	2,880	3,169	3,208	2,993	2,806	2,670	2,426	2,699	2,945	3,032
Nebraska	1,545	1,569	1,687	1,578	1,644	1,660	1,576	1,485	1,477	1,481	1,393	1,510	1,434
New Jersey	5,449	6,532	5,756	6,210	6,287	4,841	5,387	6,244	6,472	4,830	6,072	5,652	4,503
New Mexico	3,960	3,793	3,925	3,949	3,958	3,932	3,715	3,603	3,767	3,525	3,548	3,556	3,636
New York	155	259	357	326	428	348	243	413	396	388	379	354	386
North Dakota	1,166	1,166	1,145	1,154	1,132	1,161	1,252	1,237	1,326	1,320	1,256	1,262	1,288
Ohio	7,260	6,769	6,829	6,742	7,699	7,932	7,425	6,730	5,940	6,439	5,957	6,170	5,811
Oklahoma	17,508	16,711	16,758	17,713	16,504	17,626	17,262	15,637	15,078	14,746	15,546	16,146	14,984
Pennsylvania	8,399	8,046	7,172	6,900	6,974	8,693	7,034	7,879	6,417	6,939	6,847	5,991	6,545
Texas	81,621	77,583	79,870	81,817	80,019	84,915	84,872	84,600	81,102	81,781	83,336	82,258	78,331
Utah	1,290	1,191	1,324	1,369	1,285	1,350	1,175	1,135	1,138	1,257	1,222	1,179	1,174
West Virginia	555	548	550	565	519	576	622	624	613	656	670	670	627
Wyoming	9,093	8,570	9,463	10,968	11,594	11,659	10,299	9,205	7,758	7,923	7,784	7,731	7,787
Total	259,648	251,012	252,945	258,902	266,636	279,490	271,381	265,843	257,976	250,802	253,748	251,306	246,395

Table 26.—Stocks of crude petroleum in the United States in 1972, by classification and State and month

(Thousand barrels)

Classification and State	Jan. 1	Jan. 31	Feb. 29	Mar. 31	Apr. 30	May 31	June 30	July 31	Aug. 31	Sept. 30	Oct. 31	Nov. 30	Dec. 31
At refineries:													
Alabama	148	209	227	236	211	256	156	185	158	209	218	153	214
Alaska	157	134	63	117	122	70	71	85	84	120	101	104	126
Arkansas	170	166	133	117	153	149	121	142	147	138	108	135	122
California, Nevada, Oregon, Washington	20,749	18,817	19,526	19,556	21,399	23,385	22,285	23,333	23,349	22,341	20,779	21,003	20,475
Colorado	356	348	474	421	512	582	460	496	527	547	411	390	533
Florida, Georgia, South Carolina, Virginia	839	828	1,195	839	1,167	1,249	932	1,015	1,374	811	756	575	1,044
Hawaii	453	1,127	781	1,143	1,290	914	917	678	838	901	1,141	657	717
Illinois	3,764	3,847	3,771	3,575	3,833	4,206	4,433	3,930	3,457	3,341	4,474	4,171	3,550
Indiana	1,469	1,463	1,365	1,303	1,335	1,224	1,209	1,286	1,223	1,218	1,277	1,263	1,151
Kansas	2,019	1,871	1,858	1,842	1,676	1,928	1,918	1,756	1,620	1,561	1,340	1,375	1,397
Kentucky, Tennessee	1,199	1,286	1,243	1,137	1,470	1,345	1,300	1,413	1,161	1,206	1,237	1,394	1,108
Louisiana	5,259	5,576	5,929	6,087	6,392	6,839	7,237	6,596	7,257	6,220	6,430	5,915	6,231
Maryland	382	418	387	479	413	497	435	439	364	226	278	295	262
Massachusetts, Delaware, Rhode Island	697	996	580	421	709	1,386	1,398	1,522	1,258	638	548	979	610
Michigan	657	767	849	815	771	889	816	805	828	835	804	685	731
Minnesota, Wisconsin	929	954	1,075	1,053	1,566	1,409	1,346	1,350	1,204	1,151	1,156	1,238	1,026
Mississippi	833	814	889	869	894	865	914	902	904	925	912	713	848
Missouri	380	372	338	306	312	381	321	306	271	289	277	322	298
Montana	553	634	741	895	1,073	1,012	935	760	706	563	721	915	812
Nebraska	29	31	29	25	25	29	23	29	26	22	25	28	28
New Jersey	5,449	6,532	5,756	6,210	6,287	4,841	5,387	6,244	6,472	4,830	6,072	5,652	4,503
New Mexico	222	232	242	220	264	306	255	237	185	128	125	167	154
New York	125	229	327	296	398	318	213	383	366	358	349	324	356
North Dakota	153	180	190	175	155	170	272	274	335	337	312	323	234
Ohio	2,111	2,136	2,127	2,144	2,466	2,376	2,228	2,013	1,851	1,919	1,949	1,763	1,793
Oklahoma	1,523	1,713	1,695	2,043	1,898	1,912	1,915	1,719	1,603	1,545	1,438	1,366	1,356
Pennsylvania	7,169	6,960	6,136	5,866	5,778	7,551	5,984	6,785	5,225	5,810	5,922	5,197	5,721
Texas	14,098	13,227	14,759	14,658	14,955	15,216	15,401	16,353	15,141	17,069	16,487	14,313	13,552
Utah	551	483	559	609	530	578	519	495	445	465	464	544	507
West Virginia	83	67	53	68	72	101	86	166	169	189	155	125	133
Wyoming	589	671	580	701	804	853	850	779	816	819	830	780	735
Total at refineries	73,115	73,088	73,877	74,226	78,930	82,837	80,337	82,476	79,364	76,731	77,096	72,864	70,327

Table 26.—Stocks of crude petroleum in the United States in 1972, by classification and State and month—Continued

(Thousand barrels)

Classification and State	Jan. 1	Jan. 31	Feb. 29	Mar. 31	Apr. 30	May 31	June 30	July 31	Aug. 31	Sept. 30	Oct. 31	Nov. 30	Dec. 31
Pipeline and tank-farm stocks:													
Alabama	631	257	322	542	783	506	649	391	564	444	479	387	546
Alaska	877	447	317	706	704	400	189	409	596	352	633	603	839
Arkansas	931	935	1,081	998	968	965	1,018	1,143	1,206	1,132	940	873	779
California, Arizona	18,262	19,251	18,347	18,386	17,950	18,857	19,673	19,842	18,823	18,603	17,935	18,212	18,433
Colorado	1,107	927	1,025	1,049	1,143	1,164	1,270	1,305	1,240	1,255	1,171	1,147	1,130
Florida	261	135	257	175	199	333	199	99	231	140	319	114	293
Illinois	13,150	13,037	12,501	12,898	15,129	15,618	13,589	12,678	12,316	11,891	11,536	11,811	12,269
Indiana	2,531	2,503	2,298	2,284	2,036	2,671	2,619	2,499	2,390	2,246	1,925	1,866	2,242
Iowa, Missouri	6,296	5,743	6,019	5,848	6,017	6,330	6,657	5,655	5,689	5,024	5,817	6,085	5,890
Kansas	8,826	8,173	8,159	8,224	9,743	9,005	9,261	8,808	8,062	7,988	7,790	7,610	7,575
Kentucky, Tennessee	3,476	3,405	3,140	3,219	2,717	3,543	3,287	3,147	3,446	3,120	3,193	3,001	3,030
Louisiana	10,458	9,129	9,629	9,645	11,158	11,643	10,266	9,648	11,164	10,019	10,123	10,671	10,522
Michigan	839	814	716	1,116	1,523	1,651	1,524	1,623	1,730	1,987	2,257	1,399	1,907
Minnesota, Wisconsin	1,161	1,107	1,117	1,115	1,309	1,117	1,101	733	882	665	1,049	1,050	1,101
Mississippi	4,244	4,316	4,409	4,711	4,623	4,372	4,439	4,428	4,039	4,057	4,128	4,159	4,549
Montana	1,591	1,586	1,650	1,672	1,784	1,870	1,737	1,725	1,665	1,564	1,679	1,731	1,899
Nebraska	1,418	1,440	1,510	1,455	1,521	1,533	1,455	1,358	1,353	1,361	1,270	1,384	1,308
New Mexico	2,513	2,283	2,444	2,524	2,594	2,603	2,439	2,332	2,544	2,372	2,385	2,367	2,494
New York	--	--	--	--	--	--	--	--	--	--	--	--	--
North Dakota	920	885	862	884	893	906	894	882	919	916	868	878	990
Ohio	5,074	4,558	4,627	4,523	5,158	5,481	5,122	4,642	4,014	4,445	3,933	4,332	3,943
Oklahoma	15,037	14,023	14,096	14,721	13,705	14,765	14,409	12,974	12,539	12,265	13,139	13,803	12,643
Pennsylvania	1,097	960	902	900	1,062	1,013	921	965	1,063	1,000	796	665	695
Texas	62,657	59,461	60,212	62,271	60,585	64,812	64,647	63,391	61,160	59,938	62,021	63,180	59,992
Utah	660	630	676	682	707	710	580	571	620	692	678	532	546
West Virginia	307	316	332	332	282	310	371	293	279	302	350	380	329
Wyoming	7,985	7,367	8,357	9,754	10,269	10,290	8,948	7,896	6,435	6,576	6,439	6,415	6,532
Total	172,309	163,688	165,005	170,634	174,562	182,468	177,264	169,437	164,969	160,354	162,853	164,655	162,476
Lease stocks	14,224	14,236	14,063	14,042	13,144	14,185	13,780	13,930	13,643	13,717	13,799	13,787	13,592
Total stocks:													
1972	259,648	251,012	252,945	258,902	266,636	279,490	271,381	265,843	257,976	250,802	253,748	251,306	246,395
1971	276,367	269,806	266,864	267,246	271,445	284,320	279,337	273,235	272,417	269,771	265,899	265,552	259,648

Table 27.—Value of crude petroleum at wells in the United States, by State

(Dollars)

State	1971		1972	
	Total value at wells (thousands)	Average value per barrel	Total value at wells (thousands)	Average value per barrel
Alabama	23,496	3.00	30,466	3.07
Alaska	257,562	3.24	235,444	3.23
Arizona	3,918	3.17	3,226	3.25
Arkansas	56,805	3.11	58,335	3.15
California	975,076	2.72	940,430	2.71
Colorado	92,855	3.39	109,171	3.41
Illinois	135,621	3.47	121,013	3.47
Indiana	22,770	3.42	20,964	3.42
Kansas	276,433	3.52	259,578	3.52
Kentucky	35,925	3.36	32,599	3.36
Louisiana:				
Gulf Coast	3,198,487	3.59	3,044,933	3.59
Northern	161,223	3.55	156,726	3.54
Total Louisiana	3,359,710	3.59	3,201,659	3.59
Michigan	38,859	3.27	41,556	3.20
Mississippi	201,808	3.15	192,465	3.15
Montana	104,128	3.01	103,924	3.07
Nebraska	34,010	3.38	29,423	3.38
New Mexico:				
Southeastern	374,822	3.42	349,586	3.43
Northwestern	27,780	3.15	27,192	3.16
Total New Mexico	402,602	3.40	376,778	3.41
New York	5,292	4.70	4,897	4.81
North Dakota	70,805	3.27	67,647	3.28
Ohio	29,801	3.60	35,179	3.76
Oklahoma	725,611	3.40	709,033	3.41
Pennsylvania	17,699	4.66	16,414	4.77
South Dakota	604	2.59	574	2.62
Texas:				
Gulf Coast	890,658	3.73	971,022	3.73
East Texas Field	240,224	3.54	254,051	3.52
West Texas	2,040,348	3.40	2,203,363	3.41
Panhandle	90,481	3.46	83,773	3.43
Rest of State	1,000,064	3.46	1,023,868	3.43
Total Texas	4,261,775	3.48	4,536,077	3.48
Utah	71,886	3.04	80,773	3.04
West Virginia	11,609	3.91	12,047	4.50
Wyoming	459,079	3.10	432,071	3.09
Other States [1]	17,259	2.91	54,767	3.17
Total United States	11,692,998	3.39	11,706,510	3.39

[1] Florida, Missouri, Nevada, Tennessee, Virginia.

Table 28.—Posted price per barrel of petroleum at wells in the United States in 1972, by grade [1]

(Dollars)

Grade	Price per barrel
Pennsylvania grade:	
Bradford and Allegheny districts	4.88
Southwest Pennsylvania	4.17
Corning grade	3.42
Western Kentucky	3.60
Indiana-Illinois	3.60
Coldwater, Michigan	3.35
Oklahoma-Kansas:	
34°–34.9° API	3.42
36°–36.9° API	3.50
Texas, Panhandle (Carson, Gray, Hutchinson, and Wheeler Counties), 35°–35.9° API	3.41
West Texas, 30°–30.9° API (sweet)	3.36
Lea County, New Mexico, 30°–30.9° API (sour)	3.25
South Texas, Mirando, 24°–24.9° API	3.65
East Texas	3.60
Conroe, Texas	3.70
Texas:	
30°–30.9° API	3.45
20°–20.9° API	3.35
Louisiana, 30°–30.9° API	3.55
Caddo-Pine Island, Louisiana, 36°–36.9° API	3.44
Magnolia Smackover Limestone, Arkansas, 31°–31.9° API	3.07
Elk Basin, Wyoming (including Montana), 30°–30.9° API	3.16
California:	
Coalinga, 32°–32.9° API	3.41
Kettleman Hills, 37°–37.9° API	3.66
Midway Sunset, 19°–19.9° API	2.68
Wilmington, 24°–24.9° API	3.03

[1] No price change listed in 1972.

Source: Platt's Oil Price Handbook.

Table 29.—Wholesale price index, crude petroleum

(1967 = 100) [1]

Month	1968	1969	1970	1971	1972
January	99.0	99.7	106.0	113.2	113.2
February	99.0	99.9	106.0	113.2	113.2
March	99.0	103.7	106.0	113.2	113.2
April	99.0	104.8	106.0	113.2	113.2
May	99.0	104.7	106.0	113.2	113.2
June	99.3	104.5	106.0	113.2	113.2
July	99.4	104.5	104.8	113.2	113.2
August	99.7	104.5	104.8	113.2	114.7
September	99.7	104.5	104.8	113.2	114.7
October	99.7	104.5	104.8	113.2	114.7
November	99.7	104.5	104.8	113.2	114.7
December	99.7	104.5	113.2	113.2	114.7
Average	99.4	103.7	106.1	113.2	113.8

[1] Reference base prior to 1970: (1957–59 = 100).

Source: Bureau of Labor Statistics, U.S. Department of Labor.

Table 30.—Average monthly price of petroleum products in the United States, 1971–72

Monthly average and grade	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average for year
Gasoline, 92 octane (cents per gallon):														
At refineries in Oklahoma	1971	13.16	12.95	12.80	12.49	13.13	12.98	12.88	12.88	12.81	12.75	12.75	12.75	12.86
	1972	12.73	12.63	12.67	12.88	12.88	12.88	12.88	12.88	12.88	12.88	12.88	12.88	12.83
Tank wagon prices to dealers at 55 cities on first of month	1971	18.38	18.26	17.43	17.07	16.81	17.82	18.25	19.35	18.84	19.08	17.43	18.59	18.11
	1972	18.04	17.92	16.96	17.21	16.52	17.15	17.71	17.31	18.92	18.47	18.13	18.30	17.72
At service station (including all taxes)	1971	36.75	36.53	35.24	34.97	34.59	34.59	36.61	38.08	37.70	37.99	35.74	37.13	36.44
	1972	36.53	37.05	34.79	35.34	34.41	35.20	35.82	35.29	37.95	37.29	36.87	37.02	36.13
Kerosine (cents per gallon):														
No. 1 range at Chicago district	1971	12.21	12.21	11.84	11.28	11.43	11.75	11.75	11.97	12.00	12.00	12.00	12.00	11.87
	1972	12.00	11.84	11.70	11.70	11.70	11.74	11.75	11.75	11.75	12.08	12.13	12.13	11.86
No. 1 fuel oil at Oklahoma	1971	11.08	10.92	10.64	10.31	10.23	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.41
	1972	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.26	10.50	10.50	10.29
Kerosine (or No. 1 fuel oil) at New York Harbor	1971	12.31	12.43	12.33	12.20	12.22	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.26
	1972	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23	12.23
Kerosine (or No. 1 fuel oil) at Tampa	[1] 1971	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
Distillate and diesel fuel oil (cents per gallon):														
No. 2 fuel oil at refineries, Oklahoma	1971	10.33	10.17	9.89	9.56	9.48	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.66
	1972	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.75	9.75	9.54
No. 2 fuel oil at New York Harbor	1971	11.92	12.00	12.00	12.00	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.89
	1972	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85
Diesel oil, shore plants, New York	1971	12.22	12.30	12.30	12.30	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.19
	1972	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.15	12.44	12.45	12.45	12.22
Diesel oil for ships (dollars per barrel):														
New York	1971	5.42	5.42	5.42	5.42	5.42	5.42	5.32	5.22	5.22	5.36	5.08	5.08	5.32
	1972	5.08	5.16	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.32	5.32	5.18
New Orleans	1971	5.12	5.12	5.12	5.12	5.12	5.12	5.02	4.92	4.92	5.07	5.10	5.10	5.07
	1972	5.10	4.95	4.95	4.89	4.89	4.89	4.89	4.89	4.89	4.89	5.04	5.04	4.94
San Pedro	1971	6.21	6.21	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.96
	1972	5.95	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.05
Residual fuel oil (dollars per barrel):														
No. 6 fuel oil at refineries, Oklahoma	1971	2.68	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.61
	1972	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
No. 5 fuel oil at New York Harbor	1971	4.43	4.43	4.47	4.60	4.60	4.60	4.60	4.60	4.60	4.50	4.35	4.35	4.51
	1972	4.35	4.34	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.05	4.10	4.10
Bunker "C" for ships:														
New York	[2] 1971	3.75	3.75	3.75	3.92	3.92	3.85	3.73	3.65	3.65	3.54	3.30	3.30	3.68
	1972	3.41	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45
New Orleans	[2] 1971	--	--	--	--	--	--	3.65	3.65	3.65	3.62	3.30	3.30	[3] 3.53
	1972	3.42	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45
San Pedro	1971	3.30	3.30	3.76	3.80	3.80	3.80	3.80	3.80	3.80	3.77	3.45	3.45	3.65
	1972	3.50	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.63

See footnote at end of table.

Table 30.—Average monthly price of petroleum products in the United States, 1971–72—Continued

Monthly average and grade	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average for year
Lubricating oil (cents per gallon):														
East Coast:														
200 viscosity, at 100, 0–100 pour test, 95 Viscosity Index	1971	23.39	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.49
	1972	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50	24.24	24.69	23.66
500 viscosity at 100, 0–100 pour test, 95 Viscosity Index	1971	25.27	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.44
	1972	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
South Texas: 500 viscosity, No. 2½–3½ color [2]	[1] 1971	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Liquid petroleum gas (propane) (cents per gallon):														
New York Harbor/Philadelphia	1971	9.00	9.00	9.00	8.58	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.63
	1972	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.95	9.18	9.18	9.18	8.71
Oklahoma	1971	6.25	6.25	6.13	5.75	5.75	5.75	5.75	5.75	5.75	5.67	5.25	5.25	5.78
	1972	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.60	5.67	5.67	5.67	5.38
Baton Rouge	1971	6.73	6.73	6.23	5.73	5.73	5.73	5.73	5.73	5.73	6.14	5.73	5.73	5.97
	1972	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	6.12	6.21	6.21	6.21	5.88

[1] No change in price during 1972.
[2] As of Oct. 29, 1971. Includes trade voluntary allowance of 10 cents per barrel.
[3] Partial average.

Table 31.—Supply, demand and stocks of all oils by PAD districts in 1972

(Thousand barrels)

	PAD districts						United States
	I	II	III	IV	I–IV	V	
Domestic production:							
Crude oil and lease condensate	24,033	384,237	2,393,590	232,500	3,034,360	421,008	3,455,368
Natural gas plant liquids	8,118	88,675	509,969	16,541	623,303	14,913	638,216
Receipts from other districts	1,200,651	941,533	34,674	19,533	10,304	66,455	--
Imports:							
Natural gasoline and plant condensate	798	16,478	--	11,162	28,438	2,990	31,428
Crude oil	354,549	171,338	28,331	14,126	568,344	242,791	811,135
Unfinished oils	30,715	--	1,548	--	32,263	13,442	45,705
Refined products	760,635	23,320	16,474	5,461	805,890	41,098	846,988
Other hydrocarbons and hydrogen input	--	539	3,376	131	4,046	6,072	10,118
Total new supply	2,379,499	1,626,120	2,987,962	299,454	5,106,948	808,769	5,838,958
Unaccounted for crude oil	1,413	1,825	−4,832	7,922	6,328	3,873	10,201
Processing gain	15,790	41,248	61,294	1,464	119,796	22,365	142,161
Total supply	2,396,702	1,669,193	3,044,424	308,840	5,233,072	835,007	5,991,320
Change in stocks of all oil	−31,266	−29,111	−25,088	−1,710	−87,175	+2,207	−84,968
Total disposition of primary supply	2,427,968	1,698,304	3,069,512	310,550	5,320,247	832,800	6,076,288
Exports:							
Crude oil	--	--	--	--	--	187	187
Refined products	7,489	3,761	38,294	47	49,591	31,690	81,281
Shipments to other districts	55,259	59,978	1,986,748	150,557	66,455	10,304	--
Crude losses	•998	•1,594	•1,586	•153	4,331	310	4,641
Domestic demand for products:							
Gasoline:							
Motor gasoline	790,864	807,406	323,150	68,576	1,989,996	343,781	2,333,777
Aviation gasoline	4,666	3,870	3,376	688	12,600	4,028	16,628
Total gasoline	795,530	811,276	326,526	69,264	2,002,596	347,809	2,350,405
Jet fuel:							
Naphtha type	23,375	16,510	15,063	2,476	57,424	31,071	88,495
Kerosine type	121,449	60,838	18,383	7,329	207,999	85,996	293,995
Total jet fuel	144,824	77,348	33,446	9,805	265,423	117,067	382,490
Ethane (including ethylene)	1,712	11,308	92,588	42	105,650	551	106,201
Liquefied gases	57,076	126,872	192,529	15,012	391,489	22,160	413,649
Kerosine	43,759	25,002	13,436	2,062	84,259	1,595	85,854
Distillate fuel oil	511,233	323,243	101,644	30,445	966,565	99,484	1,066,049
Residual fuel oil	686,554	80,084	31,757	9,622	808,017	117,630	925,647
Petrochemical feedstocks	9,163	15,991	91,843	333	117,330	6,537	123,867
Special naphtha	7,793	8,296	10,419	273	26,781	5,107	31,888
Lubricants	20,951	13,426	11,573	871	46,821	5,980	52,801
Wax	2,923	969	781	128	4,801	609	5,410
Coke	13,113	31,220	30,451	3,561	78,345	9,974	88,319
Asphalt	43,980	56,247	32,774	11,475	144,476	19,312	163,788
Road oil	673	3,851	111	1,373	6,008	1,530	7,538
Still gas for fuel	21,530	44,064	67,256	5,424	138,274	32,719	170,993
Miscellaneous products	3,408	3,774	5,750	103	13,035	2,245	15,280
Total domestic demand	2,364,222	1,632,971	1,042,884	159,793	5,199,870	790,309	5,990,179
Stocks of all oils							
Crude oil and lease condensate	14,310	67,494	108,421	13,856	204,081	42,314	246,395
Unfinished oils	14,123	19,881	33,536	2,975	70,515	24,246	94,761
Natural gasoline and plant condensate	35	1,251	4,438	143	5,867	208	6,075
Refined products	174,923	170,512	179,117	14,084	538,636	73,112	611,748
Total	203,391	259,138	325,512	31,058	819,099	139,880	958,979

• Estimate.

Table 32.—Salient statistics of the major refined petroleum products in the United States

(Thousand barrels)

Product	1969	1970	1971	1972 p
Isopentane:				
Production	3,457	3,865	5,565	7,251
Stocks at plants	10	7	31	99
Used at refineries	3,491	3,868	5,541	7,183
Natural gasoline:				
Production	154,472	161,274	159,732	156,450
Stocks end of year:				
At plants	3,358	4,316	3,647	3,285
At refineries	1,557	1,765	1,485	1,418
Total stocks	4,915	6,081	5,132	4,703
Used at refineries	154,001	160,108	160,681	156,879
Plant condensate:				
Production	34,133	31,972	25,754	22,022
Stocks end of year:				
At plants	547	507	594	763
At refineries	232	451	419	510
Total stocks	779	958	1,013	1,273
Imports	NA	2,258	13,321	31,428
Used at refineries	34,332	34,051	39,020	53,190
Finished gasoline:				
Production:				
At refineries	2,022,407	2,099,911	2,197,550	2,315,768
At gas processing plants	5,745	5,347	5,023	4,182
Total gasoline production	2,028,152	2,105,258	2,202,573	2,319,950
Stocks end of year:				
At refineries	217,084	214,150	223,544	217,025
At plants	308	198	227	124
Total stocks	217,392	214,348	223,771	217,149
Imports	22,709	24,320	21,658	24,787
Exports	2,449	1,370	1,649	954
Domestic demand	2,042,546	2,131,252	2,213,159	2,350,405
Motor gasoline:				
Production:				
At refineries	1,995,947	2,080,199	2,179,093	2,298,775
At gas processing plants	5,745	5,347	5,023	4,182
Total motor gasoline production	2,001,692	2,085,546	2,184,116	2,302,957
Stocks end of year:				
At refineries	210,891	209,057	219,125	212,770
At plants	308	198	227	124
Total motor gasoline stocks	211,199	209,255	219,352	212,894
Imports	22,709	24,320	21,658	24,787
Exports	703	461	410	425
Domestic demand	2,016,995	2,111,349	2,195,267	2,333,777
Aviation gasoline:				
Production	26,460	19,712	18,457	16,993
Stocks end of year	6,193	5,093	4,419	4,255
Exports	1,746	909	1,239	529
Domestic demand	25,551	19,903	17,892	16,628
Jet fuel:				
Production	321,718	301,913	304,674	310,029
Stocks end of year	28,073	27,610	27,737	25,493
Imports	45,539	52,696	65,712	71,174
Exports	1,730	2,094	1,536	957
Domestic demand	361,731	352,978	368,723	382,490
Naphtha type:				
Production:				
At refineries	104,748	84,060	85,317	76,565
At gas processing plants	18	21	9	--
Total production	104,766	84,081	85,326	76,565
Stocks end of year:				
At refineries	8,537	6,618	6,988	6,147
At plants	19	3	2	--
Total stocks	8,556	6,621	6,990	6,147

See footnotes at end of table.

Table 32.—Salient statistics of the major refined petroleum products in the United States—Continued

(Thousand barrels)

Product	1969	1970	1971	1972 p
Jet fuel—Continued				
Naphtha type—Continued				
Imports	5,134	7,005	11,092	11,998
Exports	1,730	2,094	1,317	911
Domestic demand	108,518	90,927	94,732	88,495
Kerosine type:				
Production	216,952	217,832	219,348	233,464
Stocks end of year	19,517	20,989	20,747	19,346
Imports	40,405	45,691	54,620	59,176
Exports	--	--	219	46
Domestic demand	253,213	262,051	273,991	293,995
Ethane (including ethylene):				
Production:				
At gas processing plants	63,027	73,434	80,524	100,691
At refineries	9,159	9,460	9,266	9,197
Total production	72,186	82,894	89,790	109,888
Stocks end of year:				
At plants	2,182	1,319	3,365	7,052
At refineries	--	--	--	--
Total stocks	2,182	1,319	[1] 3,365	[1] 7,052
Domestic demand:				
Plant ethane	63,057	74,297	78,478	97,004
Refinery ethane and/or ethylene	9,159	9,460	9,266	9,197
Total domestic demand	72,216	83,757	87,744	106,201
Liquefied gases:				
Production:				
At gas processing plants (LPG)	315,430	326,177	337,110	344,045
At refineries (LRG):				
For fuel use	75,659	80,870	88,648	84,514
For chemical use	38,703	35,657	32,304	36,668
Total production at refineries	114,362	116,527	120,952	121,182
Total production	429,792	442,704	458,062	465,227
Stocks end of year:				
LPG stocks:				
At plants	51,799	59,276	80,294	67,807
At refineries	571	794	3,693	3,077
Total LPG stocks	52,370	60,070	83,987	70,884
LRG stocks:				
For fuel use	4,782	5,433	6,992	7,487
For chemical use	268	221	369	294
Total LRG stocks	5,050	5,654	7,361	7,781
Total stocks	57,420	65,724	[1] 91,348	[1] 78,665
Imports	12,651	18,921	25,655	32,401
Exports	12,797	9,955	9,390	11,469
LPG used at refineries	72,764	80,307	79,695	85,193
Domestic demand:				
LPG for fuel and chemical use	263,402	251,051	249,767	292,887
LRG for fuel use	74,447	80,219	87,089	84,019
LRG for chemical use	35,561	31,789	32,152	36,743
Total domestic demand	373,410	363,059	369,008	413,649
Propane (including propylene):				
Production:				
At gas processing plants	195,346	202,494	212,143	218,039
At refineries:				
For fuel use	57,022	63,409	71,934	69,038
For chemical use	19,721	20,090	21,512	25,024
Total production at refineries	76,743	83,499	93,446	94,062
Total production	272,089	285,993	305,589	312,101

See footnotes at end of table.

Table 32.—Salient statistics of the major refined petroleum products in the United States—Continued

(Thousand barrels)

Product	1969	1970	1971	1972 p
Propane (including propylene)—Continued				
Stocks end of year:				
Plant propane stocks:				
At plants	31,375	38,791	56,779	48,219
At refineries	4	84	769	190
Total plant propane stocks	31,379	38,875	57,548	48,409
Refinery propane and/or propylene stocks:				
For fuel use	3,083	4,301	5,050	4,959
For chemical use	215	146	263	193
Total refinery propane and/or propylene stocks	3,298	4,447	5,313	5,152
Total stocks	34,677	43,322	62,861	53,561
Imports	5,251	9,467	11,606	15,851
Exports	2,412	2,165	4,665	6,502
Plant propane used at refineries	1,632	1,530	3,273	3,934
Domestic demand:				
Plant propane	209,702	200,770	197,138	232,593
Refinery propane and/or propylene:				
For fuel use	56,886	62,191	71,185	69,129
For chemical use	19,579	20,159	21,395	25,094
Total refinery propane and/or propylene domestic demand	76,465	82,350	92,580	94,223
Total domestic demand	286,167	283,120	289,718	326,816
Butane (including butylene):				
Production:				
At gas processing plants	86,471	87,253	88,544	88,924
At refineries:				
For fuel use	13,535	13,514	13,765	12,940
For chemical use	10,987	8,693	5,886	5,673
Total production at refineries	24,522	22,207	19,651	18,613
Total production	110,993	109,460	108,195	107,537
Stocks end of year:				
Plant butane stocks:				
At plants	13,330	14,397	13,571	10,389
At refineries	270	414	1,614	1,425
Total plant butane stocks	13,600	14,811	15,185	11,814
Refinery butane and/or butylene stocks:				
For fuel use	1,448	912	1,448	2,161
For chemical use	36	35	11	15
Total refinery butane and/or butylene stocks	1,484	947	1,459	2,176
Total stocks	15,084	15,758	16,644	13,990
Imports	7,400	9,454	14,049	16,550
Exports	3,086	1,655	4,725	4,967
Plant butane used at refineries	40,268	43,758	46,061	44,512
Domestic demand:				
Plant butane	53,415	50,083	51,433	59,366
Refinery butane and/or butylene:				
For fuel use	13,023	14,050	13,229	12,227
For chemical use	10,993	8,694	5,910	5,669
Total refinery butane and/or butylene	24,016	22,744	19,139	17,896
Total domestic demand	77,431	72,827	70,572	77,262

See footnotes at end of table.

Table 32.—Salient statistics of the major refined petroleum products in the United States—Continued

(Thousand barrels)

Product	1969	1970	1971	1972 p
Butane-propane mixture:				
Production:				
At gas processing plants	6,711	5,677	4,173	3,535
At refineries:				
For fuel use	5,102	3,947	2,949	2,536
For chemical use	6,289	5,353	3,029	3,892
Total production at refineries	11,391	9,300	5,978	6,428
Total production	18,102	14,977	10,151	9,963
Stocks end of year:				
Plant butane-propane mixture:				
At plants	240	733	815	944
At refineries	91	35	38	31
Total plant butane-propane mixture stocks	331	768	853	975
Refinery butane-propane mixture:				
For fuel use	251	220	494	367
For chemical use	--	--	3	2
Total refinery butane-propane mixture stocks	251	220	497	369
Total stocks	582	988	1,350	1,344
Exports	7,299	6,135	--	--
Plant butane-propane mixture used at refineries	3,013	2,822	2,896	2,485
Domestic demand:				
Plant butane-propane mixture	285	198	1,192	928
Refinery butane-propane mixture:				
For fuel use	4,538	3,978	2,675	2,663
For chemical use	3,268	1,438	3,026	3,893
Total refinery butane-propane mixture	7,806	5,416	5,701	6,556
Total domestic demand	8,091	5,614	6,893	7,484
Isobutane:				
Production:				
At gas processing plants	26,902	30,753	32,250	33,547
At refineries	1,706	1,521	1,877	2,079
Total production	28,608	32,274	34,127	35,626
Stocks end of year:				
Plant isobutane:				
At plants	6,854	5,355	9,129	8,255
At refineries	206	261	1,272	1,431
Total plant isobutane stocks	7,060	5,616	10,401	9,686
Refinery isobutane	17	40	92	84
Total stocks	7,077	5,656	10,493	9,770
Plant isobutane used at refineries	27,851	32,197	27,465	34,262
Domestic demand: Refinery isobutane for chemical use	1,721	1,498	1,825	2,087
Kerosine (including range oil):				
Production:				
At refineries	101,738	94,635	86,256	79,027
At gas processing plants	1,121	1,077	1,243	1,063
Total production	102,859	95,712	87,499	80,090
Stocks end of year:				
At refineries	26,531	27,564	24,237	19,068
At plants	249	284	201	43
Total stocks	26,780	27,848	24,438	19,111
Imports	965	1,451	189	526
Exports	155	121	181	89
Domestic demand	100,369	95,974	90,917	85,854

See footnotes at end of table.

Table 32.—Salient statistics of major refined petroleum products in the United States—Continued

(Thousand barrels)

Product	1969	1970	1971	1972 p
Distillate fuel oil:				
Production:				
At refineries	846,863	895,656	910,727	962,405
At gas processing plants	1,541	1,441	1,370	1,220
Total production	848,404	897,097	912,097	963,625
Crude used directly as distillate	654	743	1,548	944
Stocks end of year:				
At refineries	171,664	195,213	[2] 190,584	[2] 154,284
At plants	50	58	38	35
Total stocks	171,714	195,271	190,622	154,319
Imports	50,883	53,826	55,783	66,391
Exports	1,123	898	2,761	1,214
Domestic demand	900,262	927,211	971,316	1,066,049
Residual fuel oil:				
Production	265,906	257,510	274,684	292,519
Crude used directly as residual	4,334	4,317	4,565	3,322
Stocks end of year	58,395	53,994	59,681	55,216
Imports	461,611	557,845	577,700	[3] 637,401
Exports	16,891	19,785	13,217	12,060
Domestic demand	721,924	804,288	838,045	925,647
Petrochemical feedstocks (excluding LRG): [4]				
Production	98,356	100,381	110,948	124,026
Stocks end of year	2,845	3,619	3,886	2,766
Imports: Naphtha–400°	40	5,352	5,109	3,178
Exports: Other	3,848	3,776	5,265	4,457
Domestic demand:				
Still gas	9,985	12,564	16,158	14,678
Naphtha–400°	57,569	57,279	56,821	58,075
Other	27,094	31,340	37,546	51,114
Total domestic demand	94,648	101,183	110,525	123,867
Special naphthas:				
Production:				
At refineries	28,397	30,196	28,255	32,096
At gas processing plants	492	384	329	264
Total production	28,889	30,580	28,584	32,360
Stocks end of year:				
At refineries	6,281	6,184	5,373	5,224
At plants	11	9	11	8
Total stocks	6,292	6,193	5,384	5,232
Imports	3,191	2,297	1,824	863
Exports	2,019	1,586	1,455	1,487
Domestic demand	29,598	31,390	29,762	31,888
Lubricants:				
Production	65,080	66,183	65,473	65,349
Stocks end of year	14,088	14,712	15,049	13,271
Imports	163	224	10	669
Exports:				
Grease	257	293	235	226
Oil	16,139	15,797	15,590	14,769
Total exports	16,396	16,090	15,825	14,995
Domestic demand	48,782	49,693	49,321	52,801
Wax (1 barrel =280 pounds):				
Production	6,049	6,294	6,939	6,148
Stocks end of year	997	993	1,117	1,061
Imports	158	117	93	335
Exports	1,623	1,808	1,660	1,129
Domestic demand	4,588	4,607	5,248	5,410
Coke (5 barrels =1 short ton):				
Production				
Marketable coke	52,006	59,107	62,313	66,814
Catalyst coke	50,862	48,764	46,801	52,951
Total production	102,868	107,871	109,114	119,765
Stocks end of year	5,198	5,297	7,445	7,816
Exports	23,035	30,557	27,069	31,075
Domestic demand	80,830	77,215	79,897	88,319

See footnotes at end of table.

Table 32.—Salient statistics of the major refined petroleum products in the United States—Continued

(Thousand barrels)

Product	1969	1970	1971	1972 p
Asphalt (5.5 barrels =1 short ton):				
Production	135,691	146,658	157,039	155,294
Stocks end of year	16,753	15,779	21,202	21,638
Imports	4,761	6,201	7,216	9,263
Exports	464	356	306	333
Domestic demand	143,290	153,477	158,526	163,788
Road oil:				
Production	9,086	9,393	8,755	7,943
Stocks end of year	880	632	900	1,305
Domestic demand	8,756	9,641	8,487	7,538
Still gas for fuel: Production	160,363	163,905	156,967	170,993
Miscellaneous products: Production:				
At refineries	17,139	14,746	14,271	15,364
At gas processing plants	805	924	1,156	1,028
Total production	17,944	15,670	15,427	16,392
Stocks end of year:				
At refineries	2,345	2,105	1,593	1,632
At plants	19	15	11	22
Total stocks	2,364	2,120	1,604	1,654
Exports	919	1,071	1,028	1,062
Domestic demand	16,617	14,843	14,915	15,280
Unfinished oils (net):				
Input (+) Output (−)	+34,346	+38,091	+43,608	+51,518
Stocks end of year	97,819	98,989	100,574	94,761
Imports	38,766	39,261	45,193	45,705

p Preliminary. NA Not available.

[1] Includes underground stocks at plants and refineries, in thousands of barrels. At plants: ethane, 1971, 2,431; 1972, 6,143; propane, 1971, 49,721; 1972, 39,340; butane, 1971, 11,178; 1972, 7,917; butane-propane mixture, 1971, 271; 1972, 324; and isobutane, 1971, 8,403; 1972, 7,407. At refineries (includes LRG): propane, 1971, 5,235; 1972, 4,427; butane, 1971, 2,528; 1972, 3,176; butane-propane mixture, 1971, 370; 1972, 260; and isobutane, 1971, 1,218; 1972, 1,236.

[2] Includes No. 4 fuel oil, in thousands of barrels: 1971, 5,160; 1972, 3,723. Data for previous years are not available.

[3] Includes 10,419,000 barrels of foreign crude oil to be burned as fuel. Data for previous years are not available.

[4] Produced at petroleum refineries. Data for LRG petrochemical feedstocks are included with those for "Liquefied gases."

NOTE:—"Stocks at refineries" include stocks at refineries and bulk terminals operated by refining and refined products pipeline companies, including pipeline fill. "Stocks at plants" include stocks at plants and terminals operated by natural gas processing companies and natural gas liquids stocks at terminals of pipeline companies, including pipeline fill.

Table 33.—Stocks of refined petroleum products (including unfinished oils) in the United States at end of month

(Thousand barrels)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1971												
Gasoline:												
Motor	232,079	245,310	245,659	230,349	221,714	209,595	203,010	204,225	207,885	208,525	208,959	219,352
Aviation	4,943	5,206	4,906	4,641	4,518	4,376	4,177	4,149	4,430	4,372	4,604	4,419
Total gasoline	237,022	250,516	250,565	234,990	226,232	213,971	207,187	208,374	212,315	212,897	213,563	223,771
Jet fuel:												
Naphtha type	6,910	7,040	6,917	6,606	6,692	6,934	7,202	6,681	6,645	6,795	7,005	6,990
Kerosine type	20,680	19,992	20,214	10,658	21,822	21,819	21,645	21,015	21,437	20,364	20,934	20,747
Total jet fuel	27,590	27,032	27,131	27,264	28,514	28,753	28,847	27,696	28,082	27,159	27,939	27,737
Ethane (including ethylene)	1,331	1,511	1,844	2,066	2,083	2,034	2,110	2,372	2,310	2,739	3,076	3,365
Liquefied gases [1]	53,394	46,454	49,166	58,220	70,813	81,840	93,021	101,603	105,836	106,644	100,516	91,348
Kerosine	23,921	19,662	19,231	19,539	21,610	23,602	26,392	28,030	27,806	28,218	26,765	24,438
Distillate fuel oil	158,740	128,706	112,872	113,693	125,815	145,790	172,373	196,973	210,136	222,969	214,780	190,622
Residual fuel oil	53,878	48,900	49,425	50,623	55,371	58,735	63,716	65,904	66,519	68,547	59,934	59,681
Petrochemical feedstocks	3,104	3,260	3,160	3,343	3,297	3,471	3,503	3,290	3,318	3,199	3,246	3,886
Special naphthas	6,213	6,029	5,682	5,727	5,448	5,308	5,208	5,279	4,997	5,212	5,463	5,384
Lubricants	15,152	15,172	15,463	15,167	15,446	15,375	15,148	14,805	15,044	14,874	14,913	15,049
Wax	1,071	1,088	1,037	1,041	1,070	1,095	1,104	1,070	1,070	1,066	1,120	1,117
Coke	5,443	5,636	5,850	5,753	6,242	5,959	6,596	7,693	9,499	8,967	7,919	7,445
Asphalt	19,667	22,732	25,500	27,743	28,282	25,243	23,840	20,159	18,077	16,512	17,593	21,202
Road oil	1,039	1,303	1,751	1,970	2,070	1,777	1,659	1,333	1,056	944	879	900
Miscellaneous	1,872	1,804	1,732	1,707	1,835	1,756	1,653	1,683	1,747	1,787	1,685	1,604
Unfinished oils	94,379	90,562	90,492	98,636	100,648	102,891	103,625	100,322	99,378	103,355	103,921	100,574
Total 1971	703,816	670,367	660,901	667,482	694,776	717,600	755,982	786,586	807,190	825,089	803,312	778,123
1972												
Gasoline:												
Motor	239,912	250,236	237,177	225,552	215,089	200,353	200,975	192,967	199,927	207,915	209,032	212,894
Aviation	4,679	4,573	4,036	3,994	4,080	3,930	3,696	3,784	3,769	3,825	4,134	4,255
Total gasoline	244,591	254,809	241,213	229,546	219,169	204,283	204,671	196,751	203,696	211,740	213,166	217,149
Jet fuel:												
Naphtha type	6,658	6,339	6,966	6,471	6,093	5,889	5,844	6,517	6,149	5,933	5,647	6,147
Kerosine type	19,199	18,891	20,181	21,097	22,792	22,467	23,585	25,132	24,448	22,700	21,003	19,346
Total jet fuel	25,857	25,230	27,147	27,568	28,885	28,356	29,429	31,649	30,597	28,633	26,650	25,493
Ethane (including ethylene)	3,265	3,677	4,112	4,589	5,127	5,423	5,690	5,888	6,086	6,170	6,719	7,052
Liquefied gases [1]	79,161	68,206	68,575	75,362	87,601	95,787	104,150	109,003	113,265	109,323	96,448	78,665
Kerosine	21,339	17,408	15,693	16,363	17,132	18,640	21,481	22,060	22,917	21,956	21,351	19,111
Distillate fuel oil	160,073	122,194	101,765	98,324	112,926	128,779	155,593	174,702	190,289	195,570	182,619	154,319
Residual fuel oil	59,440	50,891	51,566	49,425	53,035	56,109	60,230	61,399	63,692	63,758	57,702	55,216
Petrochemical feedstocks	3,236	3,115	2,801	3,094	2,852	2,831	2,727	2,824	2,749	2,355	2,721	2,766
Special naphthas	5,594	5,575	4,903	5,231	5,087	4,585	4,842	4,958	5,025	4,818	5,132	5,232
Lubricants	15,325	15,136	14,429	13,722	13,729	13,895	13,426	13,283	13,278	13,249	12,856	13,271

Wax	1,121	1,097	1,106	1,067	1,024	970	1,031	993	1,014	1,038	1,036	1,061
Coke	8,049	8,798	8,006	7,747	7,686	7,944	8,304	8,067	7,742	7,848	7,423	7,816
Asphalt	24,072	26,557	29,245	31,037	30,979	28,590	26,365	20,727	18,828	17,208	18,447	21,638
Road oil	1,021	1,291	1,752	2,030	1,950	2,042	1,846	1,663	1,460	1,284	1,270	1,305
Miscellaneous	1,620	1,521	1,315	1,266	1,460	1,571	1,780	1,474	1,682	1,702	1,557	1,654
Unfinished oils	102,763	99,110	103,137	106,890	109,535	114,054	109,574	104,871	106,043	103,482	101,221	94,761
Total 1972	756,527	704,615	676,765	673,261	698,177	713,859	751,139	760,312	788,363	790,134	756,318	706,509

[1] Includes LRG used for petrochemical feedstocks.

Table 34.—Input and output of petroleum products at refineries in the United States

(Thousand barrels)

	1968	1969	1970	1971	1972 p
INPUT					
Crude petroleum:					
Domestic	3,308,044	3,363,602	3,485,332	3,481,543	3,473,880
Foreign [1]	466,316	516,003	482,171	606,266	806,983
Total crude petroleum	3,774,360	3,879,605	3,967,503	4,087,809	4,280,863
Unfinished oils rerun (net)	26,152	34,346	38,091	43,608	51,518
Total crude and unfinished oils rerun	3,800,512	3,913,951	4,005,594	4,131,417	4,332,381
Natural gas liquids:					
Liquefied petroleum gases	72,652	72,764	80,307	79,695	85,193
Natural gasoline	148,132	157,492	163,976	166,222	164,062
Plant condensate	38,552	34,332	34,051	39,020	53,190
Total natural gas liquids	259,336	264,588	278,334	284,937	302,445
Other hydrocarbons and hydrogen [2]	3,377	4,213	6,238	6,074	10,118
OUTPUT					
Gasoline:					
Motor gasoline [3]	1,902,264	1,995,947	2,080,199	2,179,093	2,298,775
Aviation gasoline	31,563	26,460	19,712	18,457	16,993
Total gasoline [3]	1,933,827	2,022,407	2,099,911	2,197,550	2,315,768
Jet fuel:					
Naphtha type [3]	121,165	104,748	84,060	85,317	76,565
Kerosine type	193,486	216,952	217,832	219,348	233,464
Total jet fuel [3]	314,651	321,700	301,892	304,665	310,029
Ethane (including ethylene)	9,446	9,159	9,460	9,266	9,197
Liquefied refinery gas:					
For fuel use	71,102	75,659	80,870	88,648	84,514
For chemical use	37,539	38,703	35,657	32,304	36,668
Total liquefied refinery gas	108,641	114,362	116,527	120,952	121,182
Kerosine [3]	100,545	101,738	94,635	86,256	79,027
Distillate fuel oil [3]	839,373	846,863	895,656	910,727	962,405
Residual fuel oil	275,814	265,906	257,510	274,684	292,519
Petrochemical feedstocks:					
Still gas	9,844	9,985	12,564	16,158	14,678
Naphtha–400°	55,077	57,389	54,154	54,096	57,027
Other	30,501	30,982	33,663	40,694	52,321
Total petrochemical feedstocks	95,422	98,356	100,381	110,948	124,026
Special naphthas [3]	27,643	28,397	30,196	28,255	32,096
Lubricants	65,684	65,080	66,183	65,473	65,349
Wax [4]	5,887	6,049	6,294	6,939	6,148
Coke [4]	95,190	102,868	107,871	109,114	119,765
Asphalt [4]	135,460	135,691	146,658	157,039	155,294
Road oil	6,826	9,086	9,393	8,755	7,943
Still gas for fuel	149,796	160,363	163,905	156,967	170,993
Miscellaneous [3]	15,711	17,139	14,746	14,271	15,364
Processing gain (−) or loss (+)	−116,691	−122,412	−131,052	−139,433	−142,161

p Preliminary.

[1] Includes some Athabasca hydrocarbons.

[2] "Other hydrocarbons and hydrogen" is defined as including all hydrogen, process natural gas, tar sand bitumen, gilsonite, shale oil, and other naturally occurring hydrocarbon mixtures consumed as raw materials in the production of finished products.

[3] Production at natural gasoline plants shown as direct transfers and omitted from the input and output at refineries.

[4] Conversion factors: 280 pounds of wax to the barrel; 5.0 barrels of coke to the short ton; 5.5 barrels of asphalt to the short ton.

Table 35.—Input and output at refineries in the United States, by month

(Thousand barrels)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
INPUT 1971													
Crude petroleum													
Domestic	305,620	276,397	304,104	292,953	287,682	293,854	302,703	294,498	276,284	288,419	270,829	288,200	3,481,543
Foreign	39,316	35,869	40,974	43,269	45,117	50,651	52,304	57,907	57,750	57,097	62,732	63,280	[1] 606,266
Total crude petroleum	344,936	312,266	345,078	336,222	332,799	344,505	355,007	352,405	334,034	345,516	333,561	351,480	4,087,809
Unfinished oils rerun (net)	+7,629	+6,408	+2,744	−4,876	+1,008	+1,284	+3,686	+7,989	+5,311	+381	+3,318	+8,726	+43,608
Total crude and unfinished oils rerun	352,565	318,674	347,822	331,346	333,807	345,789	358,693	360,394	339,345	345,897	336,879	360,206	4,131,417
Natural gas liquids:													
Liquefied petroleum gases	8,269	7,129	6,208	5,224	5,030	5,053	5,382	5,439	6,134	7,708	8,663	9,456	79,695
Natural gasoline	14,103	12,881	14,088	12,991	14,322	14,340	14,330	14,543	13,697	13,641	13,272	14,014	166,222
Plant condensate	2,858	2,697	3,151	2,944	2,772	3,505	3,440	3,328	3,746	3,703	2,967	3,909	39,020
Total natural gas liquids	25,230	22,707	23,447	21,159	22,124	22,898	23,152	23,310	23,577	25,052	24,902	27,379	284,937
Other hydrocarbons	448	343	449	478	430	532	552	443	439	732	563	665	6,074
OUTPUT 1971													
Gasoline:													
Motor gasoline [2]	183,378	164,880	178,914	168,447	172,357	179,508	190,748	194,323	183,649	186,145	181,268	195,476	2,179,093
Aviation gasoline	1,387	1,686	1,372	1,509	1,467	1,457	1,486	1,853	2,093	1,587	1,490	1,070	18,457
Total gasoline [2]	184,765	166,566	180,286	169,956	173,824	180,965	192,234	196,176	185,742	187,732	182,758	196,546	2,197,550
Jet fuel:													
Naphtha-type [2]	6,787	6,472	7,087	7,098	7,176	7,061	6,880	6,627	7,553	7,390	7,645	7,541	85,317
Kerosine-type	19,111	17,209	19,236	18,021	18,581	18,269	17,512	18,246	17,490	18,878	18,490	18,305	219,348
Total jet fuel [2]	25,898	23,681	26,323	25,119	25,757	25,330	24,392	24,873	25,043	26,268	26,135	25,846	304,665
Ethane (including ethylene)	797	727	761	777	682	840	745	772	679	765	853	868	9,266
Liquefied gases:													
LRG for fuel use	7,113	6,967	7,916	7,566	7,665	7,759	7,849	8,402	6,811	6,872	6,315	7,413	88,648
LRG for chemical use	2,445	2,386	2,763	2,649	2,688	2,819	2,866	2,641	2,589	2,805	2,799	2,854	32,304
Total liquefied gases	9,558	9,353	10,679	10,215	10,353	10,578	10,715	11,043	9,400	9,677	9,114	10,267	120,952
Kerosine [2]	9,352	8,332	8,228	6,577	5,839	6,443	7,082	5,993	5,496	7,095	7,011	8,808	86,256
Distillate fuel oil [2]	80,811	72,178	77,898	76,551	74,935	76,679	77,671	77,831	71,215	74,644	72,078	78,236	910,727
Residual fuel oil	31,321	27,099	26,533	22,238	18,978	20,042	19,964	19,176	19,742	19,719	22,295	27,577	274,684
Petrochemical feedstocks:													
Still gas	1,135	1,575	1,242	1,433	1,131	1,372	1,509	1,966	1,688	1,158	984	965	16,158
Naphtha-400°	4,372	4,549	4,864	4,801	4,378	4,442	3,898	4,204	4,128	5,014	4,210	5,236	54,096
Other	2,230	2,134	2,757	3,686	3,535	3,497	3,573	3,315	4,055	3,875	3,845	4,192	40,694
Total petrochemical feedstocks	7,737	8,258	8,863	9,920	9,044	9,311	8,980	9,485	9,871	10,047	9,039	10,393	110,948
Special naphthas [2]	2,370	1,979	2,651	2,314	2,253	2,270	2,495	2,185	2,309	2,746	2,371	2,312	28,255

See footnotes at end of table.

Table 35.—Input and output at refineries in the United States, by month—Continued

(Thousand barrels)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lubricants:													
Bright stock	526	613	534	631	675	653	526	478	610	619	652	590	7,107
Neutral	2,412	2,163	2,507	2,352	2,590	2,392	2,548	2,773	2,274	2,366	2,508	2,426	29,311
Other grades	2,324	2,165	2,750	2,680	2,438	2,716	2,647	2,351	2,322	2,522	1,979	2,161	29,055
Total lubricants	5,262	4,941	5,791	5,663	5,703	5,761	5,721	5,602	5,206	5,507	5,139	5,177	65,473
Wax:													
Microcrystalline	92	87	109	109	89	96	93	96	209	82	111	71	1,244
Crystalline-fully refined	253	217	268	234	275	245	223	249	241	255	320	292	3,072
Crystalline-other	180	249	267	266	252	287	191	224	166	172	182	187	2,623
Total wax [3]	525	553	644	609	616	628	507	569	616	509	613	550	6,939
Coke [3]	9,013	8,259	9,267	9,159	9,015	9,106	9,173	9,749	8,933	9,263	8,914	9,263	109,114
Asphalt [3]	8,219	7,732	10,084	12,087	14,053	16,308	17,375	17,396	16,206	15,045	12,772	9,762	157,039
Road oil	529	345	594	519	792	975	1,361	1,367	897	665	434	277	8,755
Still gas for fuel	13,616	11,433	13,129	12,664	13,326	13,505	14,002	13,639	12,748	12,860	12,464	13,581	156,967
Miscellaneous products [2]	1,263	1,169	1,239	1,368	1,130	1,133	1,163	1,266	1,050	1,149	1,082	1,259	14,271
Processing gain (−) or loss (+)	−12,793	−10,881	−11,252	−12,753	−9,939	−10,655	−11,183	−12,975	−11,792	−12,010	−10,278	−12,472	−139,433
INPUT 1972 [p]													
Crude petroleum:													
Domestic	288,758	268,078	288,230	278,197	292,840	289,416	303,350	303,162	289,560	291,916	282,723	297,650	3,473,880
Foreign	64,277	61,254	63,473	57,336	62,966	65,820	65,095	66,215	73,804	76,083	72,815	77,845	[1] 806,983
Total crude petroleum	353,035	329,332	351,703	335,533	355,806	355,236	368,445	369,377	363,364	367,999	355,538	375,495	4,280,863
Unfinished oils rerun (net)	+3,331	+7,842	−793	−211	−150	−1,508	+7,819	+8,303	+2,784	+6,775	+6,107	+11,219	+51,518
Total crude and unfinished oils rerun	356,366	337,174	350,910	335,322	355,656	353,728	376,264	377,680	366,148	374,774	361,645	386,714	4,332,381
Natural gas liquids:													
Liquefied petroleum gases	9,243	8,450	7,196	6,062	5,853	5,298	5,734	5,554	6,046	7,858	9,187	8,712	85,193
Natural gasoline	13,082	12,382	13,735	13,654	14,167	14,221	14,211	14,157	14,242	14,295	13,125	12,791	164,062
Plant condensate	3,478	3,573	4,210	3,535	4,493	4,337	4,677	4,810	4,750	4,795	5,197	5,335	53,190
Total natural gas liquids	25,803	24,405	25,141	23,251	24,513	23,856	24,622	24,521	25,038	26,948	27,509	26,838	302,445
Other hydrocarbons	578	614	883	808	732	808	862	1,012	757	1,006	1,167	891	10,118
OUTPUT 1972 [p]													
Gasoline:													
Motor gasoline [2]	190,678	173,682	183,297	174,997	186,714	187,331	204,967	204,215	198,159	202,491	193,095	199,149	2,298,775
Aviation gasoline	1,550	1,201	1,217	1,442	1,500	1,363	1,311	1,606	1,358	1,746	1,459	1,240	16,993
Total gasoline [2]	192,228	174,883	184,514	176,439	188,214	188,694	206,278	205,821	199,517	204,237	194,554	200,389	2,315,768

Jet fuel:													
Naphtha type [2]	5,696	6,596	6,921	7,020	6,873	6,825	6,416	6,793	5,833	6,077	5,742	5,773	76,565
Kerosine type	18,618	19,498	21,178	19,275	20,638	18,940	20,660	19,162	18,478	19,407	18,247	19,363	233,464
Total jet fuel [2]	24,314	26,094	28,099	26,295	27,511	25,765	27,076	25,955	24,311	25,484	23,989	25,136	310,029
Ethane (including ethylene)	820	824	821	786	737	715	783	757	723	811	718	702	9,197
Liquefied gases:													
LRG for fuel use	6,735	6,730	7,372	7,045	7,182	6,930	7,469	7,462	7,157	6,913	6,640	6,879	84,514
LRG for chemical use	2,955	2,846	2,957	3,003	3,373	3,191	3,292	3,209	2,888	2,972	2,719	3,263	36,668
Total liquefied gases	9,690	9,576	10,329	10,048	10,555	10,121	10,761	10,671	10,045	9,885	9,359	10,142	121,182
Kerosine [2]	8,628	6,658	6,966	5,859	5,098	4,897	5,571	5,757	6,648	6,294	7,772	8,879	79,027
Distillate fuel oil [2]	78,674	76,928	79,480	74,291	80,145	78,692	78,394	80,051	78,712	84,369	81,584	91,085	962,405
Residual fuel oil	28,646	27,929	25,662	22,169	20,591	19,820	20,863	20,882	21,295	23,092	26,711	34,859	292,519
Petrochemical feedstocks:													
Still gas	1,230	1,055	1,033	935	1,095	1,147	1,378	1,444	1,144	1,500	1,360	1,357	14,678
Naphtha-400°	4,646	4,390	4,380	5,005	4,723	4,866	4,685	5,041	4,303	4,575	4,957	5,456	57,027
Other	3,920	4,057	3,907	4,742	4,164	3,567	4,253	4,499	4,751	4,972	4,729	4,760	52,321
Total petrochemical feedstocks	9,796	9,502	9,320	10,682	9,982	9,580	10,316	10,984	10,198	11,047	11,046	11,573	124,026
Special naphthas [2]	2,502	2,466	2,663	2,753	2,674	2,383	2,864	2,997	2,791	2,546	2,636	2,821	32,096
Lubricants:													
Bright stock	614	584	559	463	542	511	554	530	492	563	572	556	6,540
Neutral	2,402	2,159	2,381	2,452	2,611	2,643	2,378	2,729	2,329	2,433	2,381	2,365	29,263
Other grades	2,451	2,184	2,456	2,280	2,543	2,440	2,466	2,526	2,516	2,631	2,438	2,615	29,546
Total lubricants	5,467	4,927	5,396	5,195	5,696	5,594	5,398	5,785	5,337	5,627	5,391	5,536	65,349
Wax:													
Microcrystalline	65	101	101	69	68	80	81	79	82	74	78	77	955
Crystalline—fully refined	250	265	335	232	260	241	253	278	244	273	260	276	3,167
Crystalline—other	197	128	135	170	220	173	183	170	188	162	166	134	2,026
Total wax [3]	512	494	571	471	548	494	517	527	514	509	504	487	6,148
Coke [3]	9,492	9,414	9,562	8,850	9,065	9,104	9,421	11,196	10,558	11,094	10,739	11,270	119,765
Asphalt [3]	8,150	8,125	9,954	11,373	14,926	15,992	17,051	17,492	16,632	15,094	11,392	9,113	155,294
Road oil	288	356	635	613	768	1,139	1,151	1,151	836	595	273	138	7,943
Still gas for fuel	13,814	12,700	13,514	13,375	13,977	14,381	15,171	15,589	14,642	14,573	14,308	14,949	170,993
Miscellaneous products [2]	1,227	1,145	1,256	1,159	1,221	1,133	1,332	1,424	1,469	1,288	1,388	1,322	15,364
Processing gain (−) or loss (+)	−11,501	−9,828	−11,808	−10,977	−10,807	−10,112	−11,199	−13,826	−12,285	−13,817	−12,043	−13,958	−142,161

[p] Preliminary.
[1] Includes some Athabasca hydrocarbons.
[2] Production at gas-processing plants shown as direct transfers and omitted from the input and output at refineries.
[3] Conversion factors: 280 pounds of wax to the barrel; 5.0 barrels of coke to the short ton; 5.5 barrels of asphalt to the short ton.

Table 36.—Input and output at refineries

(Thousand

Item	PAD district I			PAD district II				
	East Coast	Appalachian No. 1	Total	Appalachian No. 2	Ind., Ill., etc.	Minn., Wis., etc.	Okla., Kans., etc.	Total
INPUT 1971								
Crude petroleum:								
Domestic	217,562	19,325	236,887	19,538	671,712	23,195	327,016	1,041,461
Foreign	213,316	35,507	248,823	457	[1] 78,081	56,172	2,866	137,576
Total crude petroleum	430,878	54,832	485,710	19,995	749,793	79,367	329,882	1,179,037
Unfinished oils rerun (net)	+56,004	+97	+56,101	+63	−1,774	+65	−218	−1,864
Total crude and unfinished oils rerun	486,882	54,929	541,811	20,058	748,019	79,432	329,664	1,177,173
Natural gas liquids:								
Liquefied petroleum gases	954	24	978	--	11,230	3,179	10,222	24,631
Natural gasoline	2,035	6	2,041	--	7,231	977	11,508	19,716
Plant condensate	662	562	1,224	145	3,396	3,211	--	6,752
Total natural gas liquids	3,651	592	4,243	145	21,857	7,367	21,730	51,099
Other hydrocarbons	--	--	--	--	227	--	198	425
OUTPUT 1971								
Gasoline:								
Motor gasoline [2]	230,558	23,369	253,927	10,296	412,635	44,243	196,090	663,264
Aviation gasoline	471	--	471	--	1,874	--	478	2,352
Total gasoline [2]	231,029	23,369	254,398	10,296	414,509	44,243	196,568	665,616
Jet fuel:								
Naphtha type [2]	2,167	735	2,902	--	7,836	1,234	8,196	17,266
Kerosine type	11,409	740	12,149	--	34,289	1,496	10,962	46,747
Total jet fuel [2]	13,576	1,475	15,051	--	42,125	2,730	19,158	64,013
Ethane (including ethylene)	217	--	217	--	--	--	612	612
Liquefied gases:								
LRG for fuel use	11,578	1,212	12,790	367	14,097	1,460	7,524	23,448
LRG for chemical use	5,088	--	5,088	--	2,630	12	1,017	3,659
Total liquefied gases	16,666	1,212	17,878	367	16,727	1,472	8,541	27,107
Kerosine [2]	8,683	1,333	10,016	791	14,959	1,326	2,987	20,063
Distillate fuel oil [2]	123,809	12,995	136,804	5,520	157,394	20,673	77,598	261,185
Residual fuel oil	31,566	5,559	37,125	1,402	45,728	6,435	5,325	58,890
Petrochemical feedstocks:								
Still gas	1,355	18	1,373	--	1,769	118	61	1,948
Naphtha—400°	3,056	--	3,056	--	3,926	--	1,915	5,841
Other	103	456	559	--	2,307	14	428	2,749
Total petrochemical feedstocks	4,514	474	4,988	--	8,002	132	2,404	10,538
Special naphthas [2]	532	345	877	264	3,373	--	1,375	5,012
Bright stock	535	1,303	1,838	--	654	--	800	1,454
Neutral	3,786	2,235	6,021	8	2,644	--	3,187	5,839
Other grades	3,902	545	4,447	--	2,197	--	1,475	3,672
Total lubricants	8,223	4,083	12,306	8	5,495	--	5,462	10,965
Wax:								
Microcrystalline	371	200	571	--	127	--	235	362
Crystalline-fully refined	1,083	95	1,178	14	248	--	225	487
Crystalline-other	546	328	874	--	153	--	94	247
Total wax [3]	2,000	623	2,623	14	528	--	554	1,096
Coke [3]	11,785	150	11,935	--	18,045	3,104	9,900	31,049
Asphalt [3]	31,414	1,667	33,081	1,272	32,784	6,044	15,916	56,016
Road oil	28	662	690	--	3,383	216	935	4,534
Still gas for fuel	18,506	1,993	20,499	656	30,480	2,187	11,895	45,218
Miscellaneous products [2]	1,961	128	2,089	18	1,468	133	1,004	2,623
Processing gain (−) or loss (+)	−13,976	−547	−14,523	−405	−24,897	−1,896	−8,642	−35,840

See footnotes at end of table.

in the United States by district

barrels)

PAD district III						PAD district IV	PAD district V	
Tex. Inland	Tex. Gulf	La. Gulf	Ark., La. Inland, etc.	N. Mex.	Total	Other Rocky Mt.	West Coast	United States
146,330	904,134	499,694	54,073	15,480	1,619,711	131,307	452,177	3,481,543
--	16,963	2,741	--	--	19,704	16,576	183,587	[1] 606,266
146,330	921,097	502,435	54,073	15,480	1,639,415	147,883	635,764	4,087,809
−1,302	−20,108	−237	+527	+62	−21,058	+137	+10,292	+43,608
145,028	900,989	502,198	54,600	15,542	1,618,357	148,020	646,056	4,131,417
8,397	17,416	15,205	753	757	42,528	3,306	8,252	79,695
15,569	88,498	25,929	797	379	131,172	1,619	11,674	166,222
--	17,301	2,468	2,421	--	22,190	4,718	4,136	39,020
23,966	123,215	43,602	3,971	1,136	195,890	9,643	24,062	284,937
327	227	2,004	--	--	2,558	204	2,887	6,074
95,814	494,765	263,308	24,378	8,594	886,859	77,577	297,466	2,179,093
1,719	6,117	2,896	--	--	10,732	474	4,428	18,457
97,533	500,882	266,204	24,378	8,594	897,591	78,051	301,894	2,197,550
8,388	13,156	10,070	1,755	1,980	35,349	3,929	25,871	85,317
8,474	48,280	40,297	12	52	97,115	4,413	58,924	219,348
16,862	61,436	50,367	1,767	2,032	132,464	8,342	84,795	304,665
97	4,395	3,334	--	--	7,826	--	611	9,266
3,436	19,283	14,313	1,076	520	38,628	2,347	11,435	88,648
167	12,535	5,992	318	--	19,012	26	4,519	32,304
3,603	31,818	20,305	1,394	520	57,640	2,373	15,954	120,952
1,495	33,450	16,448	885	94	52,372	2,104	1,701	86,256
26,251	224,300	121,334	13,767	3,091	388,743	38,054	85,941	910,727
3,020	37,494	16,585	3,246	549	60,894	9,886	107,889	274,684
8	7,796	--	--	--	7,804	145	4,888	16,158
1,487	37,125	1,443	--	--	40,055	--	5,144	54,096
2,871	13,392	19,444	129	--	35,836	227	1,323	40,694
4,366	58,313	20,887	129	--	83,695	372	11,355	110,948
1,057	14,367	404	1,126	1	16,955	205	5,206	28,255
--	1,767	685	--	--	2,452	45	1,318	7,107
--	8,297	5,971	773	--	15,041	204	2,206	29,311
87	16,584	1,221	1,185	--	19,077	163	1,696	29,055
87	26,648	7,877	1,958	--	36,570	412	5,220	65,473
75	176	49	--	--	300	11	--	1,244
--	553	396	--	--	949	59	399	3,072
--	795	492	--	--	1,287	22	193	2,623
75	1,524	937	--	--	2,536	92	592	6,939
2,405	20,342	13,041	2,065	111	37,964	3,046	25,120	109,114
6,757	9,556	14,548	7,207	932	39,000	9,914	19,028	157,039
180	7	--	--	--	187	1,878	1,466	8,755
4,959	35,530	17,495	1,929	547	60,460	4,963	25,827	156,967
2,138	4,317	711	18	--	7,184	88	2,287	14,271
−1,564	−39,948	−22,673	−1,298	+207	−65,276	−1,913	−21,881	−139,433

Table 36.—Input and output at refineries

Thousand

Item	PAD district I			PAD district II				
	East Coast	Appalachian No. 1	Total	Appalachian No. 2	Ind., Ill., etc.	Minn., Wis., etc.	Okla., Kans., etc.	Total
INPUT 1972 p								
Crude petroleum:								
Domestic	108,520	18,588	127,108	17,216	677,852	22,508	325,439	1,043,015
Foreign	315,266	40,100	355,366	2,392 [1]	100,952	60,824	4,565	168,733
Total crude petroleum	423,786	58,688	482,474	19,608	778,804	83,332	330,004	1,211,748
Unfinished oils rerun (net)	+57,479	+182	+57,661	+30	+40	−36	+1,228	+1,262
Total crude and unfinished oils rerun	481,265	58,870	540,135	19,638	778,844	83,296	331,232	1,213,010
Natural gas liquids:								
Liquefied petroleum gases	251	90	341	--	11,750	3,415	11,107	26,272
Natural gasoline	889	9	898	--	7,162	1,603	11,417	20,182
Plant condensate	487	960	1,447	475	13,497	6,618	--	20,590
Total natural gas liquids	1,627	1,059	2,686	475	32,409	11,636	22,524	67,044
Other hydrocarbons	--	--	--	--	264	--	275	539
OUTPUT 1972 p								
Gasoline:								
Motor gasoline [2]	235,576	25,127	260,703	10,060	438,817	48,550	199,940	697,367
Aviation gasoline	355	--	355	--	1,670	--	539	2,209
Total gasoline [2]	235,931	25,127	261,058	10,060	440,487	48,550	200,479	699,576
Jet fuel:								
Naphtha type [2]	1,454	650	2,104	--	7,552	1,446	6,686	15,684
Kerosine type	10,545	678	11,223	--	35,421	1,397	10,404	47,222
Total jet fuel [2]	11,999	1,328	13,327	--	42,973	2,843	17,090	62,906
Ethane (including ethylene)	--	--	--	--	--	--	590	590
Liquefied gases:								
For fuel use	10,991	1,432	12,423	324	14,400	1,284	7,109	23,117
For chemical use	5,497	--	5,497	--	2,634	222	1,170	4,026
Total liquefied gases	16,488	1,432	17,920	324	17,034	1,506	8,279	27,143
Kerosine [2]	6,190	1,614	7,804	781	15,041	1,339	2,932	20,093
Distillate fuel oil [2]	118,572	13,916	132,488	5,038	168,356	22,781	79,897	276,072
Residual fuel oil	30,873	6,709	37,582	1,730	50,219	7,016	6,883	65,848
Petrochemical feedstocks:								
Still gas	945	74	1,019	--	2,610	--	2,070	4,680
Naphtha—400°	5,392	--	5,392	--	4,241	--	2,147	6,388
Other	66	665	731	--	2,293	--	451	2,744
Total petrochemical feedstocks	6,403	739	7,142	--	9,144	--	4,668	13,812
Special naphthas [2]	200	339	539	282	3,755	--	1,330	5,367
Lubricants:								
Bright stock	356	1,301	1,657	--	498	--	654	1,152
Neutral	2,903	2,439	5,342	12	3,260	--	3,180	6,452
Other grades	3,606	389	3,995	--	1,498	--	1,418	2,916
Total lubricants	6,865	4,129	10,994	12	5,256	--	5,252	10,520
Wax:								
Microcrystalline	171	237	408	--	9	--	265	274
Crystalline—fully refined	828	148	976	--	205	--	246	451
Crystalline—other	261	421	682	--	192	--	104	296
Total wax [3]	1,260	806	2,066	--	406	--	615	1,021
Coke [3]	13,187	236	13,423	129	20,229	3,405	10,404	34,167
Asphalt [3]	28,087	1,620	29,707	1,447	31,487	6,340	14,578	53,852
Road oil	49	619	668	--	2,735	207	938	3,880
Still gas for fuel	19,403	2,127	21,530	697	31,335	1,423	10,609	44,064
Miscellaneous products [2]	2,192	171	2,363	41	1,444	133	1,312	2,930
Processing gain (−) or loss (+)	−14,807	−983	−15,790	−428	−28,384	−611	−11,825	−41,248

p Preliminary.
[1] Includes some Athabasca hydrocarbons.
[2] Production at gas processing plants shown as direct transfers and omitted from the input and output at refineries.
[3] Conversion factors: 280 pounds of wax to the barrel; 5.0 barrels of coke to the short ton; 5.5 barrels of asphalt to the short ton.

in the United States by district—Continued

barrels)

PAD district III						PAD district IV	PAD district V	
Tex. Inland	Tex. Gulf	La. Gulf	Ark., La. Inland, etc.	N. Mex.	Total	Other Rocky Mt.	West Coast	United States
151,737	937,758	581,455	48,072	16,261	1,735,283	131,990	436,484	3,473,880
--	23,465	4,194	--	--	27,659	13,425	241,800	[1] 806,983
151,737	961,223	585,649	48,072	16,261	1,762,942	145,415	678,284	4,280,863
−72	−23,761	+2,639	+738	−9	−20,465	−940	+14,000	+51,518
151,665	937,462	588,288	48,810	16,252	1,742,477	144,475	692,284	4,332,381
8,764	18,418	19,037	1,168	672	48,059	3,272	7,249	85,193
16,396	89,005	24,203	1,034	555	131,193	1,603	10,186	164,062
24	12,121	2,026	2,076	--	16,247	11,376	3,530	53,190
25,184	119,544	45,266	4,278	1,227	195,499	16,251	20,965	302,445
233	192	2,898	53	--	3,376	131	6,072	10,118
101,350	500,833	308,750	20,370	9,041	940,344	80,432	319,929	2,298,775
2,053	5,279	2,648	--	--	9,980	453	3,996	16,993
103,403	506,112	311,398	20,370	9,041	950,324	80,885	323,925	2,315,768
5,084	12,487	7,692	1,553	2,073	28,889	4,079	25,809	76,565
9,040	53,702	47,540	8	50	110,340	4,513	60,166	233,464
14,124	66,189	55,232	1,561	2,123	139,229	8,592	85,975	310,029
104	4,802	3,147	--	--	8,053	3	551	9,197
3,317	17,195	13,175	549	455	34,691	2,193	12,090	84,514
261	13,750	8,236	399	4	22,650	55	4,440	36,668
3,578	30,945	21,411	948	459	57,341	2,248	16,530	121,182
1,296	28,865	16,754	744	103	47,762	1,844	1,524	79,027
28,535	233,079	147,767	11,498	3,299	424,178	38,024	91,643	962,405
3,608	37,682	18,695	4,428	634	65,047	9,152	114,890	292,519
274	7,647	79	5	12	8,017	226	736	14,678
1,461	38,732	337	--	--	40,530	--	4,717	57,027
3,469	20,063	21,882	225	--	45,639	79	3,128	52,321
5,204	66,442	22,298	230	12	94,186	305	8,581	124,026
1,219	18,014	307	1,269	--	20,809	205	5,176	32,096
--	1,512	751	--	--	2,263	57	1,411	6,540
--	8,440	5,645	887	--	14,972	195	2,302	29,263
98	18,024	1,298	1,169	--	20,589	143	1,903	29,546
98	27,976	7,694	2,056	--	37,824	395	5,616	65,349
69	141	53	--	--	263	10	--	955
--	611	509	--	--	1,120	63	557	3,167
--	834	64	--	--	898	27	123	2,026
69	1,586	626	--	--	2,281	100	680	6,148
2,811	21,687	14,342	958	176	39,974	3,559	28,642	119,765
7,107	8,533	15,660	8,156	1,019	40,475	10,364	20,896	155,294
69	33	--	--	--	102	1,144	2,149	7,943
5,581	37,219	22,426	1,482	548	67,256	5,424	32,719	170,993
2,249	4,216	1,248	92	--	7,805	77	2,189	15,364
−1,973	−36,182	−22,553	−651	+65	−61,294	−1,464	−22,365	−142,161

Table 37.—Percentage yields of refined petroleum products from crude oil in the United States [1]

Finished products	1968	1969	1970	1971	1972 [p]
Gasoline	43.9	44.8	45.3	46.2	46.2
Jet fuel	8.3	8.2	7.5	7.4	7.2
Ethane (including ethylene)	([2])	.2	.2	.2	.2
Liquefied gases	3.1	2.9	3.0	2.9	2.8
Kerosine	2.7	2.6	2.3	2.1	1.8
Distillate fuel oil	22.1	21.7	22.4	22.0	22.2
Residual fuel oil	7.2	6.8	6.4	6.6	6.8
Petrochemical feedstocks	2.5	2.5	2.5	2.7	2.9
Special naphthas	.7	.7	.8	.7	.7
Lubricants	1.7	1.7	1.6	1.6	1.5
Wax	.2	.2	.2	.2	.1
Coke	2.5	2.6	2.7	2.6	2.8
Asphalt	3.6	3.5	3.6	3.8	3.6
Road oil	.1	.2	.3	.2	.2
Still gas	4.0	4.1	4.1	3.8	3.9
Miscellaneous	.4	.4	.3	.4	.4
Shortage	−3.0	−3.1	−3.2	−3.4	−3.3
Total	100.0	100.0	100.0	100.0	100.0

[p] Preliminary.
[1] Other unfinished oils added to crude in computing yields.
[2] Included with liquefied gases.

Table 38.—Salient statistics of motor gasoline in the United States, by month and district

(Thousand barrels)

	1971						1972 p					
	Production at refineries	Production at gas processing plants	Imports	Exports	Total stocks (end of period) [1]	Domestic demand	Production at refineries	Production at gas processing plants	Imports	Exports	Total stocks (end of period) [1]	Domestic demand
By month:												
January	183,378	479	2,158	22	232,079	163,169	190,678	356	1,574	36	239,912	172,012
February	164,880	438	1,309	26	245,310	153,370	173,682	344	1,903	14	250,236	165,591
March	178,914	465	1,991	19	245,659	181,002	183,297	356	2,076	28	237,177	198,760
April	168,447	433	1,893	141	230,349	185,942	174,997	339	1,569	28	225,552	188,502
May	172,357	456	1,566	43	221,714	182,971	186,714	344	2,287	16	215,089	199,792
June	179,508	406	1,541	24	209,595	193,550	187,331	364	2,244	15	200,353	204,660
July	190,748	429	1,652	21	203,010	199,393	204,967	395	2,136	18	200,975	206,858
August	194,323	429	1,676	28	204,225	195,190	204,215	366	2,512	13	192,967	215,088
September	183,649	381	1,718	38	207,885	182,050	198,159	329	2,084	38	199,927	193,574
October	186,145	422	1,115	14	208,525	187,028	202,491	328	2,195	177	207,915	196,849
November	181,268	303	2,304	16	208,959	183,425	193,095	327	2,080	22	209,032	194,363
December	195,476	382	2,735	23	219,352	188,177	199,149	334	2,127	20	212,894	197,728
Total	2,179,093	5,023	21,658	410	219,352	2,195,267	2,298,775	4,182	24,787	425	212,894	2,333,777
By refining district:												
East Coast	230,558	--	21,425	6	55,296	745,076	235,576	--	24,609	6	50,587	790,864
Appalachian No. 1	23,369	--			6,097		25,127				5,155	
Appalachian No. 2	10,296	--			3,385		10,060	--			3,805	
Indiana, Illinois, Kentucky, etc.	412,635	--	--	3	35,702	759,172	438,817	--	43	3	36,835	807,406
Minnesota, Wisconsin, etc.	44,243	--			7,515		48,550	--			7,572	
Oklahoma, Kansas, etc.	196,090	1			18,675		199,940	--			17,082	
Texas Inland	95,814	829			9,254		101,350	727			9,356	
Texas Gulf Coast	494,765	170			29,751		500,833	205			26,631	
Louisiana Gulf Coast	263,308	1,658	--	157	13,642	301,092	308,750	1,638	--	265	15,035	323,150
Arkansas, Louisiana Inland, etc.	24,378	2,365			7,757		20,370	1,612			8,227	
New Mexico	8,594	--			856		9,041	--			918	
Rocky Mountain	77,577	--	--	--	6,443	72,596	80,432	--	--	--	5,737	68,576
West Coast	297,466	--	233	244	24,979	317,331	319,929	--	135	151	25,954	343,781
Total	2,179,093	5,023	21,658	410	219,352	2,195,267	2,298,775	4,182	24,787	425	212,894	2,333,777

p Preliminary.

[1] Includes stocks of gasoline at refineries, bulk terminals and pipelines, and gas processing plants.

Table 39.—Production (refinery output) and consumption of gasoline (excluding naphtha) in the United States, by State

(Thousand barrels)

State	1970		1971		1972 p	
	Production	Consumption [1]	Production	Consumption [1]	Production	Consumption [1]
Alabama	495	38,155	640	40,336	896	43,301
Alaska	--	2,430	140	2,559	446	2,834
Arizona	--	22,649	--	24,008	--	26,323
Arkansas	15,257	23,019	13,580	24,565	7,594	26,773
California	[2] 297,236	219,693	[2] 301,754	227,060	[2] 323,479	241,154
Colorado	7,116	26,523	8,018	28,385	7,766	30,964
Connecticut	--	29,026	--	30,238	--	31,810
Delaware	[3]	6,305	[3]	6,485	[3]	6,970
District of Columbia	--	5,705	--	5,811	--	5,792
Florida	--	78,761	--	84,671	--	93,638
Georgia	--	55,206	--	59,182	--	64,012
Hawaii	[2]	5,439	[2]	5,908	[2]	6,363
Idaho	--	9,791	--	10,282	--	11,027
Illinois	152,576	105,323	168,937	109,818	176,948	115,526
Indiana	97,576	60,045	93,782	62,267	99,981	65,881
Iowa	--	36,350	--	38,523	--	39,853
Kansas	[4] 98,674	32,816	[4] 99,525	32,566	[4] 101,947	33,436
Kentucky	[5] 26,837	34,373	[5] 30,420	36,693	[5] 30,675	38,893
Louisiana	224,772	35,763	236,883	37,204	273,332	40,572
Maine	--	11,220	--	11,801	--	12,507
Maryland	--	37,626	--	39,874	--	42,523
Massachusetts	--	49,891	--	51,611	--	54,531
Michigan	26,804	99,619	27,399	102,688	27,047	108,625
Minnesota	25,788	45,412	29,552	47,808	33,772	50,236
Mississippi	34,402	24,952	39,479	26,352	49,946	28,675
Missouri	[4]	57,016	[4]	60,653	[4]	63,522
Montana	22,233	10,125	23,922	10,598	27,053	10,899
Nebraska	[4]	20,225	[4]	21,202	[4]	21,965
Nevada	--	7,693	--	8,141	--	8,909
New Hampshire	--	8,295	--	8,844	--	9,365
New Jersey	84,232	67,510	88,276	69,758	92,896	75,928
New Mexico	8,141	13,431	8,594	14,866	9,041	15,844
New York	14,396	149,777	15,281	156,761	16,950	161,557
North Carolina	--	57,650	--	60,702	--	65,892
North Dakota	[6] 14,733	9,060	[6] 14,691	9,311	[6] 14,778	10,231
Ohio	103,844	109,519	104,267	112,344	115,896	120,605
Oklahoma	94,936	37,490	97,043	38,232	98,532	39,266
Oregon	--	25,336	--	26,722	--	28,541
Pennsylvania	[3] 135,396	103,472	[3] 141,943	107,120	[3] 141,053	117,867
Rhode Island	--	8,240	--	9,512	--	9,841
South Carolina	--	29,066	--	31,511	--	35,186
South Dakota	--	10,143	--	10,594	--	11,203
Tennessee	[5]	43,259	[5]	46,378	[5]	50,824
Texas	562,122	152,226	598,415	159,997	609,515	168,899
Utah	22,158	14,372	22,678	15,391	21,454	16,405
Vermont	--	5,115	--	5,413	--	5,798
Virginia	[7]	50,862	[7]	53,992	[7]	57,365
Washington	[2]	36,721	[2]	37,671	[2]	39,243
West Virginia	[7] 7,571	16,526	[7] 8,898	15,623	[7] 10,159	17,543
Wisconsin	[6]	46,386	[6]	48,113	[6]	51,238
Wyoming	22,616	6,085	23,433	6,322	24,612	6,879
Total	2,099,911	2,191,692	2,197,550	2,292,466	2,315,768	2,443,034

p Preliminary.
[1] American Petroleum Institute.
[2] Washington and Hawaii included with California.
[3] Delaware included with Pennsylvania.
[4] Nebraska and Missouri included with Kansas.
[5] Tennessee included with Kentucky.
[6] Wisconsin included with North Dakota.
[7] Virginia included with West Virginia.

Table 40.—Salient statistics of aviation gasoline in the United States, by month and refining district

(Thousand barrels)

	1971				1972 p			
	Production	Exports	Stocks (end of period)	Domestic demand	Production	Exports	Stocks (end of period)	Domestic demand
By month:								
January	1,387	114	4,943	1,423	1,550	104	4,679	1,186
February	1,686	226	5,206	1,197	1,201	37	4,573	1,270
March	1,372	65	4,906	1,607	1,217	120	4,036	1,634
April	1,509	79	4,641	1,695	1,442	26	3,994	1,458
May	1,467	63	4,518	1,527	1,500	35	4,080	1,379
June	1,457	72	4,376	1,527	1,363	64	3,930	1,449
July	1,486	109	4,177	1,576	1,311	60	3,696	1,485
August	1,853	66	4,149	1,815	1,606	19	3,784	1,499
September	2,093	236	4,430	1,576	1,358	22	3,769	1,351
October	1,587	35	4,372	1,610	1,746	14	3,825	1,676
November	1,490	76	4,604	1,182	1,459	15	4,134	1,135
December	1,070	98	4,419	1,157	1,240	13	4,255	1,106
Total	18,457	1,239	4,419	17,892	16,993	529	4,255	16,628
By refining district:								
East Coast	471	46	619	5,253	355	47	566	4,666
Appalachian No. 1	--		49		--		46	
Appalachian No. 2	--		1		--		1	
Illinois, Indiana, Kentucky, etc.	1,874	76	548	4,295	1,670	18	811	3,870
Minnesota, Wisconsin, North Dakota	--		170		--		127	
Oklahoma, Kansas, etc	478		259		539		220	
Texas Inland	1,719		264		2,053		333	
Texas Gulf Coast	6,117		927		5,279		843	
Louisiana Gulf Coast	2,896	1,009	545	3,077	2,648	373	429	3,376
Arkansas, Louisiana Inland, etc.	--		30		--		5	
New Mexico	--		3		--		2	
Rocky Mountain	474	--	68	679	453	1	56	688
West Coast	4,428	108	936	4,570	3,996	90	816	4,028
Total	18,457	1,239	4,419	17,892	16,993	529	4,255	16,628

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Table 41.—Shipments of aviation fuels

(Thousand barrels)

Product and use	Shipments to PAD districts					U.S. total
	I	II	III	IV	V	
1971						
Aviation gasoline:						
For commercial use:						
Airlines	376	97	118	25	146	762
Factory	34	29	18	--	14	95
General aviation	2,317	3,105	1,578	399	2,049	9,448
Total	2,727	3,231	1,714	424	2,209	10,305
For military use	2,560	1,065	1,350	258	2,356	7,589
Jet fuel:						
For commercial use:						
Kerosine type:						
Airlines	r 91,113	53,334	19,558	6,001	r 69,135	r 239,141
Factory	349	211	131	--	528	1,219
General aviation	3,265	2,457	1,340	371	845	8,278
Total	r 94,727	56,002	21,029	6,372	r 70,508	r 248,638
Naphtha type:						
Airlines	2,906	295	681	--	1,583	5,465
Factory	840	148	23	--	340	1,351
General aviation	71	4	10	--	131	216
Total	3,817	447	714	--	2,054	7,032
Total for commercial use	r 98,544	56,449	21,743	6,372	r 72,562	r 255,670
For military use:						
JP-4	[1] 16,965	17,377	13,924	2,197	[1] 28,030	78,493
JP-5	10,160	1,687	1,177	31	9,924	22,979
Other	765	17	648	363	457	2,250
Total [1]	27,890	19,081	15,749	2,591	38,411	103,722
1972						
Aviation gasoline:						
For commercial use:						
Airlines	385	225	149	28	138	925
Factory	46	39	15	1	51	152
General aviation	2,412	2,839	1,598	457	2,324	9,630
Total	2,843	3,103	1,762	486	2,513	10,707
For military use	2,207	794	1,002	190	1,733	5,926
Jet fuel:						
For commercial use:						
Kerosine type:						
Airlines	92,851	55,057	18,916	6,934	73,185	246,943
Factory	626	554	290	--	645	2,115
General aviation	6,877	2,768	1,675	388	1,052	12,760
Total [2]	100,354	58,379	20,881	7,322	74,882	261,818
Naphtha type:						
Airlines	1,154	7	--	--	3,308	4,469
Factory	1,015	166	20	--	20	1,221
General aviation	493	115	22	2	257	889
Total	2,662	288	42	2	3,585	6,579
Total for commercial use [2]	103,016	58,667	20,923	7,324	78,467	268,397
For miltiary use:						
JP-4	[3] 16,935	16,786	11,183	2,650	[3] 25,153	72,707
JP-5	9,197	249	1,485	--	9,816	20,747
Other	888	12	848	315	568	2,631
Total [3]	27,020	17,047	13,516	2,965	35,537	96,085

r Revised.

[1] Excludes direct imports by the military into PAD district I, 7,300,000 barrels; PAD district V, 1,946,000 barrels.

[2] Excludes shipments for nonaviation use, by PAD district I, 6,891,000 barrels; PAD district II, 1,464,000 barrels; PAD district III, 2,000 barrels; PAD district IV, 55,000 barrels; PAD district V, 409,000 barrels.

[3] Excludes direct imports by the military into PAD district I, 6,939,000 barrels; PAD district V, 2,129,000 barrels.

Table 42.—Salient statistics of kerosine in the United States, by month and district

(Thousand barrels unless otherwise stated)

	1971							1972 p						
	Production at refineries	Yield (%)	Production at gas processing plants	Imports	Exports	Total stocks (end of period)	Domestic demand	Production at refineries	Yield (%)	Production at gas processing plants	Imports	Exports	Total stocks (end of period)	Domestic demand
By month:														
January	9,352	2.6	110	1	24	23,921	13,366	8,628	2.4	97	1	8	21,339	11,817
February	8,332	2.6	100	--	20	19,662	12,671	6,658	2.0	93	24	3	17,408	10,703
March	8,228	2.4	116	1	15	19,231	8,761	6,966	2.0	96	--	8	15,693	8,769
April	6,577	2.0	94	--	24	19,539	6,339	5,859	1.7	80	1	4	16,363	5,266
May	5,839	1.7	113	--	5	21,610	3,876	5,098	1.4	106	1	4	17,132	4,432
June	6,443	1.9	96	--	27	23,602	4,520	4,897	1.4	97	--	11	18,640	3,475
July	7,082	2.0	111	--	25	26,392	4,378	5,571	1.5	109	41	19	21,481	2,861
August	5,993	1.7	124	--	4	28,030	4,475	5,757	1.5	97	28	8	22,060	5,295
September	5,496	1.6	107	48	7	27,806	5,868	6,648	1.8	73	83	2	22,917	5,945
October	7,095	2.1	105	23	11	28,218	6,800	6,294	1.7	71	45	5	21,956	7,366
November	7,011	2.1	74	9	11	26,765	8,536	7,772	2.1	70	116	10	21,351	8,553
December	8,808	2.4	93	107	8	24,438	11,327	8,879	2.3	74	186	7	19,111	11,372
Total	86,256	2.1	1,243	189	181	24,438	90,917	79,027	1.8	1,063	526	89	19,111	85,854
By refining districts:														
East Coast	8,683	1.8	--	187	11	9,983	47,411	6,190	1.3	--	524	9	7,231	43,643
Appalachian No. 1	1,333	2.4	--			693		1,614	2.7	--			476	
Appalachian No. 2	791	3.9	--			497		781	4.0	--			529	
Indiana, Illinois, Kentucky, etc	14,959	2.0	--	2	5	4,435	28,028	15,041	1.9	--	2	1	3,885	25,002
Minnesota, Wisconsin, etc	1,326	1.7	--			1,084		1,339	1.6	--			970	
Oklahoma, Kansas, etc	2,987	.9	--			1,016		2,932	.9	--			646	
Texas Inland	1,495	1.0	330			266		1,296	.9	368			195	
Texas Gulf Coast	33,450	3.7	36			2,381		28,865	3.1	33			2,260	
Louisiana Gulf Coast	16,448	3.3	281	--	40	2,287	11,852	16,754	2.9	227	--	66	1,505	13,552
Arkansas, Louisiana Inland, etc	885	1.6	560			846		744	1.5	393			718	
New Mexico	94	.6	36			13		103	.6	42			28	
Rocky Mountain	2,104	1.4	--	--	--	547	1,905	1,844	1.3	—	--	--	297	2,062
West Coast	1,701	.3	--	--	25	390	1,721	1,524	.2	--	--	13	371	1,595
Total	86,256	2.1	1,243	189	181	24,438	90,917	79,027	1.8	1,063	526	89	19,111	85,854

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Table 43.—Salient statistics of distillate fuel oil in the United States, by month and refining district

(Thousand barrels unless otherwise stated)

	1971								1972 p							
	Production at refineries	Yield (%)	Production at gas processing plants	Crude used directly as distillate [1]	Imports	Exports	Total stocks, end of period	Domestic demand	Production at refineries	Yield (%)	Production at gas processing plants	Crude used directly as distillate [1]	Imports	Exports	Total stocks, end of period	Domestic demand
By month:																
January	80,811	22.9	119	52	6,484	272	158,740	123,725	78,674	22.1	108	72	6,125	96	160,073	115,432
February	72,178	22.6	114	51	5,200	241	128,706	107,336	76,928	22.8	98	60	5,931	138	122,194	120,758
March	77,898	22.4	129	67	5,585	378	112,872	99,135	79,480	22.6	107	46	7,792	94	101,765	107,760
April	76,551	23.1	127	125	3,237	169	113,693	79,050	74,291	22.2	107	68	5,662	236	98,324	83,333
May	74,935	22.4	129	124	2,874	248	125,815	65,692	80,145	22.5	107	81	4,086	52	112,926	69,765
June	76,679	22.2	124	166	3,509	410	145,790	60,093	78,692	22.2	112	88	2,883	107	128,779	65,815
July	77,671	21.7	111	166	3,327	316	172,373	54,376	54,394	20.8	101	91	3,119	62	155,593	54,829
August	77,831	21.6	103	184	2,841	259	196,973	56,100	80,051	21.2	104	92	2,862	18	174,702	63,982
September	71,215	21.0	84	159	2,963	94	210,136	61,164	78,712	21.5	99	89	2,963	119	190,289	66,157
October	74,644	21.6	113	142	3,679	135	222,969	65,610	84,369	22.5	95	66	6,299	14	195,570	85,534
November	72,078	21.4	101	131	5,098	161	214,780	85,436	81,584	22.6	86	105	6,820	46	182,619	101,500
December	78,236	21.7	116	181	10,986	78	[2] 190,622	113,599	91,085	23.6	96	86	11,849	232	[2] 154,319	131,184
Total	910,727	22.0	1,370	1,548	55,783	2,761	[2] 190,622	971,316	962,405	22.2	1,220	944	66,391	1,214	[2] 154,319	1,066,049
By refining district:																
East Coast	123,809	25.4	--	--	53,373	34	73,968	483,456	118,572	24.6	--		64,244	95	61,513	511,233
Appalachian No. 1	12,995	23.7	--				3,882		13,916	23.6	--				3,297	
Appalachian No. 2	5,520	27.5	--				2,968		5,038	25.7	--				2,921	
Indiana, Illinois, Kentucky, etc	157,394	21.0	--	499	258	388	29,851	286,165	168,356	21.6	--	329	473	27	22,096	323,243
Minnesota, Wisconsin, etc	20,673	26.0	--				9,516		22,781	27.4	--				6,388	
Oklahoma, Kansas, etc	77,598	23.5	--				14,517		79,397	24.1	--				11,034	
Texas Inland	26,251	18.1	127				2,317		28,535	18.8	111				2,347	
Texas Gulf Coast	224,300	24.9	98				21,765		233,079	24.9	93				19,105	
Louisiana Gulf Coast	121,334	24.2	447	191	1,079	839	11,190	75,212	147,767	25.1	481	191	1,191	214	6,376	101,644
Arkansas, Louisiana, Inland, etc	13,767	25.2	698				5,641		11,498	23.5	535				3,275	
New Mexico	3,091	19.9	--				198		3,299	20.3	--				281	
Rocky Mountain	38,054	25.7	--	69	--	--	2,808	29,892	38,024	26.3	--	69	--	--	2,558	30,445
West Coast	85,941	13.3	--	789	1,073	1,500	12,001	96,591	91,643	13.2	--	355	483	878	12,128	99,484
Total	910,727	22.0	1,370	1,548	55,783	2,761	[2] 190,622	971,316	962,405	22.2	1,220	944	66,391	1,214	[2] 154,319	1,066,049

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[1] Figures represent crude oil used as fuel on pipelines which is considered part of the demand for distillate.

[2] Includes No. 4 fuel oil in thousands of barrels: PAD district I, 1971, 4,021; 1972, 2,996; PAD district II, 1971, 328; 1972, 336; PAD district III, 1971, 654; 1972, 223; PAD district IV, 1971, 6; 1972, 12; PAD district V, 1971, 151; 1972, 156.

Table 44.—Salient statistics of residual fuel oil in the United States, by month and refining districts

(Thousand barrels unless otherwise stated)

	1971							1972 p						
	Production	Yield (%)	Crude used directly as residual [1]	Imports	Exports	Stocks (end of period)	Domestic demand	Production	Yield (%)	Crude used directly as residual [1]	Imports	Exports	Stocks (end of period)	Domestic demand
By month:														
January	31,321	8.9	328	55,193	494	53,878	86,464	28,646	8.0	277	58,658	547	59,440	87,275
February	27,099	8.5	371	49,635	1,355	48,900	80,728	27,929	8.3	262	55,761	548	50,891	91,953
March	26,533	7.6	479	57,598	1,521	49,425	82,564	25,662	7.3	252	59,718	1,806	51,566	83,151
April	22,238	6.7	337	47,229	1,749	50,623	66,857	22,169	6.6	243	50,265	1,507	49,425	73,311
May	18,978	5.7	325	46,634	1,167	55,371	60,022	20,591	5.8	255	48,770	567	53,035	65,439
June	20,042	5.8	376	43,540	1,090	58,735	59,504	19,820	5.6	275	49,455	603	56,109	65,873
July	19,964	5.6	367	45,231	991	63,716	59,590	20,863	5.5	268	49,416	1,051	60,230	65,375
August	19,176	5.3	380	39,741	1,377	65,904	55,732	20,882	5.5	272	51,244	1,161	61,399	70,068
September	19,742	5.8	373	43,545	868	66,519	62,177	21,295	5.8	279	48,736	905	63,692	67,112
October	19,719	5.7	472	42,581	909	68,547	59,835	23,092	6.2	309	51,303	1,476	63,758	73,162
November	22,295	6.6	354	47,100	1,200	59,934	77,162	26,711	7.4	314	53,075	872	57,702	85,284
December	27,577	7.7	403	59,673	496	59,681	87,410	34,859	9.0	316	61,000	1,017	55,216	97,644
Total	[2] 274,684	6.6	4,565	[3] 577,700	13,217	59,681	838,045	[2] 292,519	6.8	3,322	[3] 637,401	12,060	55,216	925,647
By refining district:														
East Coast	31,566	6.5	--	558,771	606	26,653	625,859	30,873	6.4	--	[4] 616,990	1,502	23,622	686,554
Appalachian No. 1	5,559	10.1				580		6,709	11.4				676	
Appalachian No. 2	1,402	7.0				414		1,730	8.8				305	
Indiana, Illinois, Kentucky, etc	45,728	6.1	576	3,953	316	7,215	66,261	50,219	6.4	578	[5] 5,458	511	5,825	80,084
Minnesota, Wisconsin, etc	6,435	8.1				903		7,016	8.4				1,002	
Oklahoma, Kansas, etc	5,325	1.6				839		6,883	2.1				935	
Texas Inland	3,020	2.1				187		3,608	2.4				310	
Texas Gulf Coast	37,494	4.2				4,937		37,682	4.0				3,893	
Louisiana Gulf Coast	16,585	3.3	1,783	6,553	3,167	2,006	27,618	18,695	3.2	1,781	6,212	4,667	1,646	31,757
Arkansas, Louisiana Inland, etc	3,246	5.9				110		4,428	9.1				205	
New Mexico	549	3.5				4		634	3.9				10	
Rocky Mountain	9,886	6.7	252	41	3	919	9,347	9,152	6.3	252	--	--	386	9,622
West Coast	107,889	16.7	1,954	8,382	9,125	14,914	108,960	114,890	16.6	711	8,741	5,380	16,401	117,630
Total	[2] 274,684	6.6	4,565	[3] 577,700	13,217	59,681	838,045	[2] 292,519	6.8	3,322	[3] 637,401	12,060	55,216	925,647

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[1] Represents crude oil used as fuel on leases and for general industrial purposes.

[2] Sulfur content in thousands of barrels: 0%–0.50%—1971, 50,526; 1972, 64,855: 0.51%–1.00%—1971, 57,805; 1972, 70,824. 1.01%–2.00%—1971, 97,824; 1972, 92,652. Over 2.0%—1971, 68,524; 1972, 64,188.

[3] Sulfur content in thousands of barrels: 0%–50%—1971, 109,328; 1972, 208,137. 0.51%–1.00%—1971, 166 606; 1972, 163,764. 1.01%–2.00%—1971, 77,225; 1972, 79,816. Over 2.0%, 1971, 224,541; 1972, 191,184.

[4] Includes 9,939,000 barrels of foreign crude oil to be burned as fuel.

[5] Includes 480,000 barrels of foreign crude oil to be burned as fuel.

Table 45.—Salient statistics of jet fuel in the United States, by month and refining district

(Thousand barrels)

	Production			Imports			Exports			Total stocks, end of period			Domestic demand		
	Naphtha-type [1]	Kerosine type	Total	Naphtha type	Kerosine type	Total	Naphtha type	Kerosine type	Total	Naphtha type [2]	Kerosine type	Total	Naphtha type	Kerosine type	Total
1971															
By month:															
January	6,787	19,111	25,898	684	2,828	3,512	112	--	112	6,910	20,680	27,590	7,070	22,248	29,318
February	6,472	17,209	23,681	903	4,621	5,524	86	89	175	7,040	19,992	27,032	7,159	22,429	29,588
March	7,087	19,236	26,323	565	4,101	4,666	125	21	146	6,917	20,214	27,131	7,650	23,094	30,744
April	7,100	18,021	25,121	462	3,560	4,022	233	40	273	6,606	20,658	27,264	7,640	21,097	28,737
May	7,179	18,581	25,760	637	4,376	5,013	114	23	137	6,692	21,822	28,514	7,616	21,770	29,386
June	7,064	18,269	25,333	1,401	4,778	6,179	121	--	121	6,934	21,819	28,753	8,102	23,050	31,152
July	6,881	17,512	24,393	1,086	5,157	6,243	91	--	91	7,202	21,645	28,847	7,608	22,843	30,451
August	6,627	18,246	24,873	1,413	4,688	6,101	116	--	116	6,681	21,015	27,696	8,445	23,564	32,009
September	7,553	17,490	25,043	1,245	4,536	5,781	108	46	154	6,645	21,437	28,082	8,726	21,558	30,284
October	7,390	18,878	26,268	916	4,127	5,043	15	--	15	6,795	20,364	27,159	8,141	24,078	32,219
November	7,645	18,490	26,135	870	4,352	5,222	99	--	99	7,005	20,934	27,939	8,206	22,272	30,478
December	7,541	18,305	25,846	910	7,496	8,406	97	--	97	6,990	20,747	27,737	8,369	25,988	34,357
Total	85,326	219,348	304,674	11,092	54,620	65,712	1,317	219	1,536	6,990	20,747	27,737	94,732	273,991	368,723
By refining district:															
East Coast	2,167	11,409	13,576	8,549	29,717	38,266	--	--	--	255	3,905	4,160	28,183	110,666	138,849
Appalachian No. 1	735	740	1,475							123	278	401			
Appalachian No. 2	--	--	--							67	163	230			
Indiana, Illinois, Kentucky, etc	7,836	34,289	42,125							657	3,061	3,718			
Minnesota, Wisconsin, North and South Dakota	1,234	1,496	2,730	--	3,043	3,043	--	--	--	136	720	856	17,737	57,730	75,467
Oklahoma, Kansas, Missouri, etc	8,196	10,962	19,158							824	908	1,732			
Texas Inland	8,388	8,474	16,862							397	1,022	1,419			
Texas Gulf Coast	13,156	48,280	61,436							917	2,374	3,291			
Louisiana Gulf Coast	10,070	40,297	50,367	--	2,959	2,959	--	--	--	934	1,361	2,295	14,617	17,845	32,462
Arkansas, Louisiana Inland, etc	1,764	12	1,776							397	548	945			
New Mexico	1,980	52	2,032							237	94	331			
Rocky Mountain	3,929	4,413	8,342							230	340	570	2,199	6,766	8,965
West Coast	25,871	58,924	84,795	2,548	18,901	21,444	1,317	219	1,536	1,816	5,973	7,789	31,996	80,984	112,980
Total	85,326	219,348	304,674	11,092	54,620	65,712	1,317	219	1,536	6,990	20,747	27,737	94,732	273,991	368,723

1972 [p]															
By month:															
January	5,696	18,618	24,314	836	4,705	5,541	99	--	99	6,658	19,199	25,857	6,765	24,871	31,636
February	6,596	19,498	26,094	610	5,778	6,388	18	--	18	6,339	18,891	25,230	7,507	25,584	33,091
March	6,921	21,178	28,099	391	4,776	5,167	104	--	104	6,966	20,181	27,147	6,581	24,664	31,245
April	7,020	19,275	26,295	444	3,270	3,714	15	10	25	6,471	21,097	27,568	7,944	21,619	29,563
May	6,873	20,638	27,511	1,123	3,812	4,935	145	--	145	6,093	22,792	28,885	8,229	22,755	30,984
June	6,825	18,940	25,765	1,121	7,636	8,757	152	--	152	5,889	22,467	28,356	7,998	26,901	34,899
July	6,416	20,660	27,076	825	4,286	5,111	127	--	127	5,844	23,585	29,429	7,159	23,828	30,987
August	6,793	19,162	25,955	730	4,882	5,612	15	--	15	6,517	25,132	31,649	6,835	22,497	29,332
September	5,833	18,478	24,311	894	4,796	5,690	16	--	16	6,149	24,448	30,597	7,079	23,958	31,037
October	6,077	19,407	25,484	1,657	7,220	8,877	16	--	16	5,933	22,700	28,633	7,934	28,375	36,309
November	5,742	18,247	23,989	1,835	3,699	5,534	17	--	17	5,647	21,003	26,650	7,846	23,643	31,489
December	5,773	19,363	25,136	1,532	4,316	5,848	187	36	223	6,147	19,346	25,493	6,618	25,300	31,918
Total	76,565	233,464	310,029	11,998	59,176	71,174	911	46	957	6,147	19,346	25,493	88,495	293,995	382,490
By refining district:															
East Coast	1,454	10,545	11,999	8,336	30,294	38,630	--	--	--	377	3,651	4,028	23,375	121,449	144,824
Appalachian No. 1	650	678	1,328							55	256	311			
Appalachian No. 2	--	--	--							51	196	247			
Indiana, Illinois, Kentucky, etc	7,552	35,421	42,973							659	3,238	3,897			
Minnesota, Wisconsin, North and South Dakota	1,446	1,397	2,843	--	2,789	2,789	--	--	--	152	795	947	16,510	60,838	77,348
Oklahoma, Kansas, Missouri, etc	6,686	10,404	17,090							771	957	1,728			
Texas Inland	5,084	9,040	14,124							314	1,234	1,548			
Texas Gulf Coast	12,487	53,702	66,189							925	2,213	3,138			
Louisiana Gulf Coast	7,692	47,540	55,232	--	4,451	4,451	1	10	11	512	1,149	1,661	15,063	18,383	33,446
Arkansas, Louisiana Inland, etc	1,553	8	1,561							285	419	704			
New Mexico	2,073	50	2,123							184	42	226			
Rocky Mountain	4,079	4,513	8,592	--	--	--	--	--	--	284	338	622	2,476	7,329	9,805
West Coast	25,809	60,166	85,975	3,662	21,642	25,304	910	36	946	1,578	4,858	6,436	31,071	85,996	117,067
Total	76,565	233,464	310,029	11,998	59,176	71,174	911	46	957	6,147	19,346	25,493	88,495	293,995	382,490

[p] Preliminary.
[1] Includes naphtha type jet fuel produced at natural gas processing plants: Arkansas, Louisiana Inland, etc., 1971, 9.
[2] Includes naphtha type jet fuel stored at natural gas processing plants: Arkansas, Louisiana Inland, etc., 1971, 2; 1972, 2.

Table 46.—Salient statistics of lubricants in the United States, by month and refining district

(Thousand barrels unless otherwise stated)

	Production				Yield (%)	Imports (all types)	Exports (all types)	Stocks, end of period				Domestic demand (all types)
	Bright stock	Neutral	Other grades	Total				Bright stock	Neutral	Other grades	Total	
1971												
By month:												
January	526	2,412	2,324	5,262	1.5	1	1,249	1,383	4,853	8,916	15,152	3,574
February	613	2,163	2,165	4,941	1.5	2	1,255	1,500	4,801	8,871	15,172	3,668
March	534	2,507	2,750	5,791	1.6	1	1,376	1,573	4,986	8,904	15,463	4,125
April	631	2,352	2,680	5,663	1.7	1	1,528	1,387	4,825	8,955	15,167	4,432
May	675	2,590	2,438	5,703	1.7	--	1,439	1,433	4,807	9,206	15,446	3,985
June	653	2,392	2,716	5,761	1.7	1	1,056	1,512	4,912	8,951	15,375	4,777
July	526	2,548	2,647	5,721	1.6	--	1,377	1,397	4,876	8,875	15,148	4,571
August	478	2,773	2,351	5,602	1.6	--	1,598	1,240	4,894	8,671	14,805	4,347
September	610	2,274	2,322	5,206	1.5	2	1,359	1,245	4,926	8,873	15,044	3,610
October	619	2,366	2,522	5,507	1.6	--	1,113	1,296	4,669	8,909	14,874	4,564
November	652	2,508	1,979	5,139	1.5	1	1,290	1,461	4,694	8,758	14,913	3,811
December	590	2,426	2,161	5,177	1.4	1	1,185	1,404	4,910	8,735	15,049	3,857
Total	7,107	29,311	29,055	65,473	1.6	10	15,825	1,404	4,910	8,735	15,049	49,321
By refining district:												
East Coast	535	3,786	3,902	8,223	1.7	6	3,679	200	592	2,645	3,437	20,539
Appalachian No. 1	1,303	2,235	545	4,083	7.4			129	285	633	1,047	
Appalachian No. 2	--	8	--	8	1			--	22	76	98	
Indiana, Illinois, Kentucky, etc	654	2,644	2,197	5,495	0.7	2	658	106	494	999	1,599	13,234
Minnesota, Wisconsin, etc	--	--	--	--	--			--	--	36	36	
Oklahoma, Kansas, etc	800	3,187	1,475	5,462	1.7			223	544	192	959	
Texas Inland	--	--	87	87	.1			--	--	39	39	
Texas Gulf Coast	1,767	8,297	16,584	26,648	3.0			293	1,433	2,667	4,393	
Louisiana Gulf Coast	685	5,971	1,221	7,877	1.6	--	10,509	105	972	203	1,280	9,889
Arkansas, Louisiana Inland, etc	--	773	1,185	1,958	3.6			--	75	291	366	
New Mexico	--	--	--	--	--			--	--	7	7	
Rocky Mountain	45	204	163	412	.3	--	11	14	70	15	99	334
West Coast	1,318	2,206	1,696	5,220	.8	2	968	334	423	932	1,689	5,325
Total	7,107	29,311	29,055	65,473	1.6	10	15,825	1,404	4,910	8,735	15,049	49,321

1972 p												
By month:												
January	614	2,402	2,451	5,467	1.5	1	1,441	1,423	5,011	8,891	15,325	3,751
February	584	2,159	2,184	4,927	1.5	1	990	1,462	4,877	8,797	15,136	4,127
March	559	2,381	2,456	5,396	1.5	--	1,528	1,315	4,506	8,608	14,429	4,575
April	463	2,452	2,280	5,195	1.6	2	1,337	1,273	4,446	8,003	13,722	4,567
May	542	2,611	2,543	5,696	1.6	1	1,143	1,216	4,592	7,921	13,729	4,547
June	511	2,643	2,440	5,594	1.6	1	1,130	1,157	4,520	8,218	13,895	4,299
July	554	2,378	2,466	5,398	1.4	112	1,131	1,092	4,379	7,955	13,426	4,348
August	530	2,729	2,526	5,785	1.5	63	1,248	1,054	4,351	7,878	13,283	4,743
September	492	2,329	2,516	5,337	1.5	78	1,134	1,044	4,351	7,883	13,278	4,286
October	563	2,438	2,631	5,627	1.5	122	1,166	1,031	4,147	8,071	13,249	4,612
November	572	2,381	2,438	5,391	1.5	170	1,365	1,088	3,772	7,996	12,856	4,589
December	556	2,365	2,615	5,536	1.4	118	1,382	1,099	3,857	8,315	13,271	3,857
Total	6,540	29,263	29,546	65,349	1.5	669	14,995	1,099	3,857	8,315	13,271	52,801
By refining district:												
East Coast	356	2,908	3,606	6,865	1.4	661	3,452	39	426	2,382	2,847	20,951
Appalachian No. 1	1,301	2,439	389	4,129	7.0			205	273	568	1,046	
Appalachian No. 2	--	12	--	12	--			--	--	294	294	
Indiana, Illinois, Kentucky, etc	498	3,260	1,498	5,256	.7	5	457	103	587	774	1,464	13,426
Minnesota, Wisconsin, etc	--	--	--	--	--			--	--	34	34	
Oklahoma, Kansas, etc	654	3,180	1,418	5,252	1.6			181	404	139	724	
Texas Inland	--	--	98	98	.1			--	--	37	37	
Texas Gulf Coast	1,512	8,440	18,024	27,976	3.0			249	1,054	2,499	3,802	
Louisiana Gulf Coast	751	5,645	1,298	7,694	1.3	--	9,728	49	586	277	912	11,573
Arkansas, Louisiana Inland, etc	--	887	1,169	2,056	4.2			--	63	271	334	
New Mexico	--	--	--	--	--			--	--	9	9	
Rocky Mountain	57	195	143	395	.3	--	5	11	74	12	97	871
West Coast	1,411	2,302	1,903	5,616	.8	3	1,353	262	390	1,019	1,671	5,980
Total	6,540	29,263	29,546	65,349	1.5	669	14,995	1,099	3,857	8,315	13,271	52,801

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Table 47.—Salient statistics of liquefied gases (excluding ethane) in the United States, by month and refining district

(Thousand barrels unless otherwise stated)

	1971								1972 p							
	Refinery production	Yield (%)	Production at gas processing plants	Imports	Exports	LPG used at refineries	Total stocks, end of period	Domestic demand	Refinery production	Yield (%)	Production at gas processing plants	Imports	Exports	LPG used at refineries	Total stocks, end of period	Domestic demand
By month:																
January	9,558	2.7	28,738	3,046	805	8,269	53,394	44,598	9,690	2.7	29,666	4,331	891	9,243	79,161	45,740
February	9,353	2.9	26,381	2,399	751	7,129	46,454	37,193	9,576	2.8	27,882	3,520	878	8,450	68,206	42,605
March	10,679	3.1	28,679	1,735	813	6,208	49,166	31,360	10,329	2.9	29,678	3,556	1,106	7,196	68,575	34,892
April	10,215	3.1	27,688	1,639	800	5,224	58,220	24,464	10,048	3.0	29,124	1,778	777	6,062	75,362	27,324
May	10,353	3.1	28,366	1,570	658	5,030	70,813	22,008	10,555	3.0	28,917	1,856	836	5,853	87,601	22,400
June	10,578	3.0	26,599	1,562	707	5,053	81,840	21,952	10,121	2.9	27,628	1,610	809	5,298	95,787	25,066
July	10,715	3.0	27,144	1,479	770	5,382	93,021	22,005	10,761	2.9	28,127	1,598	848	5,734	104,150	25,541
August	11,043	3.0	28,046	1,409	754	5,439	101,603	25,723	10,671	2.8	28,276	1,780	1,012	5,554	109,003	29,308
September	9,400	2.7	27,686	1,691	745	6,134	105,863	27,665	10,045	2.7	27,447	2,019	941	6,046	113,265	28,262
October	9,677	2.8	28,525	2,953	823	7,708	106,644	31,816	9,885	2.6	29,316	3,294	1,083	7,858	109,323	37,496
November	9,114	2.8	27,963	2,852	826	8,663	100,516	36,568	9,359	2.6	28,881	3,283	1,065	9,187	96,448	44,146
December	10,267	2.9	31,295	3,320	938	9,456	91,348	43,656	10,142	2.6	29,103	3,776	1,223	8,712	78,665	50,869
Total	120,952	2.9	337,110	25,655	9,390	79,695	91,348	369,008	121,182	2.8	344,045	32,401	11,469	85,193	78,665	413,649
By refining district:																
East Coast	16,666	3.4	4,325	4,775	20	954	6,159	51,321	16,488	3.4	4,786	5,336	39	251	4,831	57,076
Appalachian No. 1	1,212	2.2				24			1,432	2.4				90		
Appalachian No. 2	367	1.8				--			324	1.6				--		
Indiana, Illinois, Kentucky, etc	16,727	2.2	56,037	10,859	85	11,230	30,169	96,967	17,034	2.2	56,319	14,441	96	11,750	25,716	126,872
Minnesota, Wisconsin, etc	1,472	1.8				3,179			1,506	1.8				3,415		
Oklahoma, Kansas, etc	8,541	2.6				10,222			8,279	2.5				11,107		
Texas Inland	3,603	2.5				8,397			3,578	2.4				8,764		
Texas Gulf Coast	31,818	3.5				17,416			30,945	3.3				18,418		
Louisiana Gulf Coast	20,305	4.0	260,652	794	7,894	15,205	53,773	187,878	21,411	3.6	265,505	787	9,839	19,037	46,850	192,529
Arkansas, Louisiana Inland, etc	1,394	2.6				753			948	1.9				1,168		
New Mexico	520	3.3				757			459	2.8				672		
Rocky Mountain	2,373	1.6	9,276	3,060	--	3,306	442	10,131	2,248	1.6	11,584	5,405	--	3,272	386	15,012
West Coast	15,954	2.5	6,820	6,167	1,391	8,252	805	22,711	16,530	2.4	5,851	6,432	1,495	7,249	882	22,160
Total	120,952	2.9	337,110	25,655	9,390	79,695	91,348	369,008	121,182	2.8	344,045	32,401	11,469	85,193	78,665	413,649

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Table 48.—Salient statistics of ethane (including ethylene) in the United States, by month and refining districts

(Thousand barrels)

	1971					1972 p				
	Production			Total stocks, end of period	Domestic demand	Production			Total stocks, end of period	Domestic demand
	At gas processing plants	At refineries	Total			At gas processing plants	At refineries	Total		
By month:										
January	6,190	797	6,987	1,331	6,975	7,467	820	8,287	3,265	8,387
February	5,989	727	6,716	1,511	6,536	7,788	824	8,612	3,677	8,200
March	6,427	761	7,188	1,844	6,855	8,633	821	9,454	4,112	9,019
April	6,310	777	7,087	2,066	6,865	7,802	786	8,588	4,589	8,111
May	6,488	682	7,170	2,083	7,153	8,274	737	9,011	5,127	8,473
June	6,473	840	7,313	2,084	7,362	7,958	715	8,673	5,423	8,377
July	6,898	745	7,643	2,110	7,567	8,680	783	9,463	5,690	9,196
August	7,228	772	8,000	2,372	7,738	8,687	757	9,444	5,888	9,246
September	6,632	679	7,311	2,310	7,373	8,535	723	9,258	6,086	9,060
October	7,232	765	7,997	2,739	7,568	9,060	811	9,871	6,170	9,787
November	7,119	853	7,972	3,076	7,635	8,720	718	9,438	6,719	8,889
December	7,538	868	8,406	3,365	8,117	9,087	702	9,789	7,052	9,456
Total	80,524	9,266	89,790	3,365	87,744	100,691	9,197	109,888	7,052	106,201
By refining district:										
East Coast	--	217	217	--	1,882	--	--	--	--	1,712
Appalachian No. 1	1,665	--	1,665			1,712	--	1,712		
Appalachian No. 2	--	--	--			--	--	--		
Indiana, Illinois, Kentucky, etc	7,064	--	7,064	935	10,396	7,232	--	7,232	986	11,308
Minnesota, Wisconsin, etc	--	--	--			--	--	--		
Oklahoma, Kansas, etc	3,073	612	3,685			3,537	590	4,127		
Texas Inland	26,494	97	26,591			40,260	104	40,364		
Texas Gulf Coast	14,837	4,395	19,232			16,520	4,802	21,322		
Louisiana Gulf Coast	23,358	3,334	26,692	2,429	74,836	27,538	3,147	30,685	6,064	92,588
Arkansas, Louisiana Inland, etc	1,253	--	1,253			817	--	817		
New Mexico	2,760	--	2,760			3,035	--	3,035		
Rocky Mountain	20	--	20	1	19	40	3	43	2	42
West Coast	--	611	611	--	611	--	551	551	--	551
Total	80,524	9,266	89,790	3,365	87,744	100,691	9,197	109,888	7,052	106,201

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Table 49.—Salient statistics of petrochemical feedstocks [1] in the United States, by month and refining district

(Thousand barrels)

	Production				Imports (naphtha 400°)	Exports (other)	Stocks, end of period			Domestic demand (all types)
	Still gas	Naphtha 400°	Other	Total			Naphtha 400°	Other	Total	
1971										
By month:										
January	1,135	4,372	2,230	7,737	620	495	1,349	1,755	3,104	8,377
February	1,575	4,549	2,134	8,258	385	275	1,682	1,578	3,260	8,212
March	1,242	4,864	2,757	8,863	125	593	1,477	1,683	3,160	8,495
April	1,433	4,801	3,686	9,920	47	505	1,605	1,738	3,343	9,279
May	1,131	4,378	3,535	9,044	532	309	1,519	1,778	3,297	9,313
June	1,372	4,442	3,497	9,311	592	665	1,641	1,830	3,471	9,064
July	1,509	3,898	3,573	8,980	362	158	1,514	1,989	3,503	9,152
August	1,966	4,204	3,315	9,485	789	752	1,452	1,838	3,290	9,735
September	1,688	4,128	4,055	9,871	616	268	1,391	1,927	3,318	10,191
October	1,158	5,014	3,875	10,047	203	658	1,402	1,797	3,199	9,711
November	984	4,210	3,845	9,039	290	356	1,335	1,911	3,246	8,926
December	965	5,236	4,192	10,393	548	231	1,732	2,154	3,886	10,070
Total	16,158	54,096	40,694	110,948	5,109	5,265	1,732	2,154	3,886	110,525
By refining district:										
East Coast	1,355	3,056	103	4,514	--	766	--	--	--	7,536
Appalachian No. 1	18	--	456	474			--	13	13	
Appalachian No. 2	--	--	--	--			--	--	--	
Indiana, Illinois, Kentucky, etc	1,769	3,926	2,307	8,002	--	58	333	159	492	11,708
Minnesota, Wisconsin, etc	118	--	14	132			--	--	--	
Oklahoma, Kansas, etc	61	1,915	428	2,404			101	137	238	
Texas Inland	8	1,487	2,871	4,366			2	341	343	
Texas Gulf Coast	7,796	37,125	13,392	58,313			1,110	591	1,701	
Louisiana Gulf Coast	--	1,443	19,444	20,887	5,109	1,890	--	533	533	81,976
Arkansas, Louisiana Inland, etc	--	--	129	129			--	4	4	
New Mexico	--	--	--	--			--	--	--	
Rocky Mountain	145	--	227	372	--	9	--	10	10	373
West Coast	4,888	5,144	1,323	11,355	--	2,542	186	366	552	8,932
Total	16,158	54,096	40,694	110,948	5,109	5,265	1,732	2,154	3,886	110,525

1972 p										
By month:										
January	1,230	4,646	3,920	9,796	130	579	1,360	1,876	3,236	9,997
February	1,055	4,390	4,057	9,502	181	386	1,200	1,915	3,115	9,418
March	1,033	4,380	3,907	9,320	389	314	1,199	1,602	2,801	9,709
April	935	5,005	4,742	10,682	21	309	1,213	1,881	3,094	10,101
May	1,095	4,723	4,164	9,982	581	297	1,138	1,714	2,852	10,508
June	1,147	4,866	3,567	9,580	210	429	1,130	1,701	2,831	9,382
July	1,378	4,685	4,253	10,316	274	363	1,085	1,692	2,727	10,331
August	1,444	5,041	4,499	10,984	301	333	1,190	1,634	2,824	10,855
September	1,144	4,303	4,751	10,198	332	99	1,096	1,653	2,749	10,506
October	1,500	4,575	4,972	11,047	340	135	910	1,445	2,355	11,646
November	1,360	4,957	4,729	11,046	87	823	1,120	1,601	2,721	9,944
December	1,357	5,456	4,760	11,573	332	390	982	1,784	2,766	11,470
Total	14,678	57,027	52,321	124,026	3,178	4,457	982	1,784	2,766	123,867
By refining district:										
East Coast	945	5,392	66	6,403	--	710	--	--	--	9,163
Appalachian No. 1	74	--	665	739			--	13	13	
Appalachian No. 2	--	--	--	--			--	--	--	
Indiana, Illinois, Kentucky, etc	2,610	4,241	2,293	9,144	--	47	101	152	253	15,991
Minnesota, Wisconsin, etc	--	--	--	--			--	--	--	
Oklahoma, Kansas, etc	2,070	2,147	451	4,668			85	74	159	
Texas Inland	274	1,461	3,469	5,204			1	249	250	
Texas Gulf Coast	7,647	38,732	20,063	66,442			687	526	1,213	
Louisiana Gulf Coast	79	337	21,882	22,298	3,178	1,507	--	437	437	91,843
Arkansas, Louisiana Inland, etc	5	--	225	230			--	4	4	
New Mexico	12	--	--	12			--	--	--	
Rocky Mountain	226	--	79	305	--	18	--	1	1	333
West Coast	736	4,717	3,128	8,581	--	2,180	108	328	436	6,537
Total	14,678	57,027	52,321	124,026	3,178	4,457	982	1,784	2,766	123,867

p Preliminary.
[1] Produced at petroleum refineries (excluding ethane and liquefied gases).

Table 50.—Statistical summary of petroleum asphalt and road oil

(Thousand short tons) [1]

	1968	1969	1970	1971	1972 [p]
Petroleum asphalt:					
Production	24,629	24,671	26,665	28,553	28,235
Imports (including natural)	1,134	866	1,127	1,312	1,684
Exports	78	84	65	55	61
Stocks (end of period)	3,646	3,046	2,869	3,855	3,934
Apparent domestic consumption	25,664	26,053	27,905	28,823	29,779
Petroleum asphalt shipments:					
Paving	20,690	21,333	23,594	23,821	24,100
Roofing	4,767	4,080	4,248	4,362	5,248
All other	2,922	2,743	1,870	1,840	1,773
Total	28,379	28,156	29,712	30,023	31,121
Road oil:					
Production	1,241	1,652	1,708	1,592	1,444
Stocks (end of period)	100	160	115	164	237
Apparent domestic consumption	1,287	1,592	1,753	1,543	1,371
Shipments	1,025	1,116	1,753	1,543	1,371

[p] Preliminary.
[1] Converted from barrels to short tons (5.5 barrels = 1 short ton).

Table 51.—Salient statistics of petroleum asphalt in the United States, by month and refining district

(Thousand short tons) [1]

	1971					1972 [p]				
	Production	Imports (including natural)	Exports	Stocks (end of period)	Domestic demand	Production	Imports (including natural)	Exports	Stocks (end of period)	Domestic demand
By month:										
January	1,494	97	6	3,576	878	1,482	80	5	4,377	1,035
February	1,406	40	4	4,133	884	1,477	88	5	4,828	1,108
March	1,833	145	5	4,636	1,470	1,810	57	6	5,317	1,372
April	2,198	98	4	5,044	1,884	2,068	100	3	5,643	1,838
May	2,555	100	4	5,142	2,554	2,714	131	5	5,632	2,851
June	2,965	106	5	4,590	3,619	2,908	158	5	5,198	3,495
July	3,159	124	4	4,335	3,534	3,100	138	4	4,794	3,639
August	3,163	153	6	3,665	3,979	3,180	210	8	3,768	4,408
September	2,947	186	5	3,287	3,506	3,024	224	7	3,423	3,587
October	2,736	104	4	3,002	3,120	2,744	158	5	3,129	3,192
November	2,322	104	3	3,199	2,226	2,071	133	4	3,354	2,025
December	1,775	55	5	3,855	1,169	1,657	157	4	3,934	1,229
Total	28,553	1,312	55	3,855	28,823	28,235	1,684	61	3,934	29,779
By refining district:										
East Coast	5,712	1,161	10	944	8,177	5,107	1,605	9	966	7,996
Appalachian No. 1	303			81		295			71	
Appalachian No. 2	231			107		263			96	
Illinois, Indiana, Kentucky, etc	5,961	29	6	643	9,949	5,725	10	8	697	10,227
Minnesota, Wisconsin, North Dakota	1,099			204		1,153			201	
Oklahoma, Kansas, etc	2,894			475		2,651			395	
Texas Inland	1,229			134		1,292			110	
Texas Gulf Coast	1,737			146		1,551			129	
Louisiana Gulf Coast	2,645	122	12	163	5,613	2,847	69	7	216	5,959
Arkansas, Louisiana Inland, etc	1,310			134		1,483			156	
New Mexico	169			40		185			63	
Rocky Mountain	1,803	--	2	392	1,677	1,884	--	3	357	2,086
West Coast	3,460	--	25	392	3,407	3,799	--	34	477	3,511
Total	28,553	1,312	55	3,855	28,823	28,235	1,684	61	3,934	29,779

[p] Preliminary.
[1] Converted from barrels to short tons (5.5 barrels = 1 short ton).

Table 52.—Salient statistics of road oil in the United States, by month and refining district

(Short tons) [1]

	1971			1972 [p]		
	Production	Stocks (end of period)	Domestic demand	Production	Stocks (end of period)	Domestic demand
By month:						
January	96,181	188,909	22,182	52,364	185,636	30,364
February	62,727	236,909	14,727	64,727	234,727	15,636
March	108,000	318,364	26,545	115,455	318,545	31,636
April	94,364	358,182	54,546	111,454	369,091	60,909
May	144,000	376,364	125,818	139,636	354,545	154,182
June	177,273	323,091	230,546	207,091	371,273	190,364
July	247,455	301,636	268,909	209,273	335,636	244,909
August	248,545	242,364	307,818	209,273	302,364	242,545
September	163,091	192,000	213,455	152,000	265,455	188,909
October	120,909	171,636	141,273	108,182	233,454	140,182
November	78,909	159,818	90,727	49,636	230,909	52,182
December	50,364	163,636	46,545	25,091	237,273	18,727
Total	1,591,818	163,636	1,543,091	1,444,182	237,273	1,370,545
By refining district:						
East Coast	5,091	--	122,545	8,909	--	122,363
Appalachian No. 1	120,364	4,000		112,545	3,091	
Appalachian No. 2	--	--		--	--	
Indiana, Illinois, Kentucky, etc	615,091	60,909	791,091	497,273	62,182	700,182
Minnesota, Wisconsin, North Dakota	39,273	--		37,636	727	
Oklahoma, Kansas, etc	170,000	8,364		170,546	11,636	
Texas Inland	32,727	1,636		12,546	--	
Texas Gulf Coast	1,273	--		6,000	--	
Louisiana Gulf Coast	--	--	33,091	--	--	20,182
Arkansas, Louisiana Inland, etc	--	--		--	--	
New Mexico	--	--		--	--	
Rocky Mountain	341,454	52,364	313,818	208,000	13,455	249,636
West Coast	266,545	36,363	282,546	390,727	146,182	278,182
Total	1,591,818	163,636	1,543,091	1,444,182	237,273	1,370,545

[p] Preliminary.
[1] Converted from barrels to short tons (5.5 barrels=1 short ton)

Table 53.—Salient statistics of special naphthas in the United States, by month and refining district

(Thousand barrels unless otherwise stated)

	1971							1972 p						
	Production at refineries	Yield (%)	Production at gas processing plants	Imports	Exports	Total stocks, end of period [1]	Domestic demand	Production at refineries	Yield (%)	Production at gas processing plants	Imports	Exports	Total stocks, end of period [1]	Domestic demand
By month:														
January	2,370	0.7	30	110	103	6,213	2,387	2,502	0.7	24	304	117	5,594	2,503
February	1,979	.6	24	430	233	6,029	2,384	2,466	.7	20	24	72	5,575	2,457
March	2,651	.7	27	34	113	5,682	2,946	2,663	.8	24	7	169	4,903	3,197
April	2,314	.7	25	2	146	5,727	2,150	2,753	.8	22	52	101	5,231	2,398
May	2,253	.7	27	57	114	5,448	2,502	2,674	.8	22	4	153	5,087	2,691
June	2,270	.7	24	46	98	5,308	2,382	2,383	.7	21	4	98	4,585	2,812
July	2,495	.7	27	2	129	5,208	2,495	2,864	.8	22	24	230	4,842	2,423
August	2,185	.6	25	259	129	5,279	2,269	2,997	.8	22	160	117	4,958	2,946
September	2,309	.7	24	141	63	4,997	2,693	2,791	.8	20	5	120	5,025	2,629
October	2,746	.8	28	141	162	5,212	2,533	2,546	.7	23	256	117	4,818	2,915
November	2,371	.7	24	340	77	5,463	2,407	2,636	.7	21	4	91	5,132	2,256
December	2,312	.6	49	262	88	5,384	2,614	2,821	.7	23	19	102	5,232	2,661
Total	28,255	.7	329	1,824	1,455	5,384	29,762	32,096	.7	264	863	1,487	5,232	31,888
By refining district:														
East Coast	532	.1	--	1,580	357	1,351	7,030	200	--	--	508	283	1,169	7,793
Appalachian No. 1	345	.6	--			80		339	.6	--			63	
Appalachian No. 2	264	1.3	--			25		282	1.4	--			23	
Indiana, Illinois, Kentucky, etc	3,373	.5	--	61	85	763	7,318	3,755	.5	--	49	163	761	8,296
Minnesota, Wisconsin, etc	--	--	--			84		--	--	--			83	
Oklahoma, Kansas, etc	1,375	.4	20			168		1,330	.4	13			157	
Texas Inland	1,057	.7	4			133		1,219	.8	--			115	
Texas Gulf Coast	14,367	1.6	--			1,861		18,014	1.9	--			2,022	
Louisiana Gulf Coast	404	.1	--	170	904	33	10,017	307	.1	--	250	894	55	10,464
Arkansas, Louisiana Inland, etc	1,126	2.1	305			165		1,269	2.6	251			153	
New Mexico	1	--	--			--		--	--	--			--	
Rocky Mountain	205	.1	--	13	--	34	222	205	.1	--	56	12	35	228
West Coast	5,206	.8	--	--	109	687	5,175	5,176	.7	--	--	135	596	5,107
Total	28,255	.7	329	1,824	1,455	5,384	29,762	32,096	.7	264	863	1,487	5,232	31,888

p Preliminary.

[1] Includes inventories at natural gas processing plants: Arkansas, Louisiana Inland, etc., 1971, 11; 1972, 8.

Table 54.—Salient statistics of wax in the United States, by type, month, and refining district

(Thousand barrels) [1]

	Production				Imports (all types)	Exports (all types)	Stocks, end of period				Domestic demand (all types)
	Micro-crystalline	Crystalline, fully refined	Crystalline, other	Total			Micro-crystalline	Crystalline, fully refined	Crystalline, other	Total	
1971											
By month:											
January	92	253	180	525	8	140	209	399	463	1,071	315
February	87	217	249	553	8	154	200	388	500	1,088	390
March	109	268	267	644	--	178	207	356	474	1,037	517
April	109	234	266	609	14	163	227	316	498	1,041	456
May	89	275	252	616	13	145	215	377	478	1,070	455
June	96	245	287	628	13	143	222	396	477	1,095	473
July	93	223	191	507	--	150	208	404	492	1,104	348
August	96	249	224	569	12	137	191	387	492	1,070	478
September	209	241	166	616	12	145	208	406	456	1,070	483
October	82	255	172	509	--	93	204	404	458	1,066	420
November	111	320	182	613	13	58	235	452	433	1,120	514
December	71	292	187	550	--	154	228	439	450	1,117	399
Total	1,244	3,072	2,623	6,939	93	1,660	228	439	450	1,117	5,248
By refining district:											
East Coast	371	1,083	546	2,000	2	662	54	211	71	336	2,697
Appalachian No. 1	200	95	328	623			43	22	104	169	
Appalachian No. 2	--	14	--	14			--	--	--	--	
Indiana, Illinois, Kentucky, etc	127	248	153	528	--	39	3	18	87	108	1,094
Minnesota, Wisconsin, etc	--	--	--	--			--	--	--	--	
Oklahoma, Kansas, etc	235	225	94	554			47	13	14	74	
Texas Inland	75	--	--	75			21	--	--	21	
Texas Gulf Coast	176	553	795	1,524			29	51	90	170	
Louisiana Gulf Coast	49	396	492	937	91	888	26	59	54	139	860
Arkansas, Louisiana Inland, etc	--	--	--	--			--	--	--	--	
New Mexico	--	--	--	--			--	--	--	--	
Rocky Mountain	11	59	22	92	--	--	5	24	18	47	88
West Coast	--	399	193	592	--	71	--	41	12	53	509
Total	1,244	3,072	2,623	6,939	93	1,660	228	439	450	1,117	5,248

1972 p

By month:											
January	65	250	197	512	13	117	227	422	472	1,121	404
February	101	265	128	494	2	98	241	480	376	1,097	422
March	101	335	135	571	3	167	243	515	348	1,106	398
April	69	232	170	471	4	88	220	482	365	1,067	426
May	68	260	220	548	2	131	190	459	375	1,024	462
June	80	241	173	494	3	68	188	435	347	970	483
July	81	253	183	517	58	90	204	462	365	1,031	424
August	79	278	170	527	29	90	197	438	358	993	504
September	82	244	188	514	46	62	207	432	375	1,014	477
October	74	273	162	509	38	56	202	449	387	1,038	467
November	78	260	166	504	78	94	200	447	389	1,036	490
December	77	276	134	487	59	68	201	469	391	1,061	453
Total	955	3,167	2,026	6,148	335	1,129	201	469	391	1,061	5,410
By refining district:											
East Coast	171	828	261	1,260	305	479	23	117	5	145	2,923
Appalachian No. 1	237	148	421	806			63	95	67	225	
Appalachian No. 2	--	--	--	--			--	--	--	--	
Indiana, Illinois, Kentucky, etc	9	205	192	406	5	35	2	10	118	130	969
Minnesota, Wisconsin, etc	--	--	--	--			--	--	--	--	
Oklahoma, Kansas, etc	265	246	104	615			43	18	13	74	
Texas Inland	69	--	--	69			20	--	--	20	
Texas Gulf Coast	141	611	834	1,586			21	42	156	219	
Louisiana Gulf Coast	53	509	64	626	25	557	25	137	1	163	781
Arkansas, Louisiana Inland, etc	--	--	--	--			--	--	--	--	
New Mexico	--	--	--	--			--	--	--	--	
Rocky Mountain	10	68	27	100	--	--	4	23	19	46	128
West Coast	--	557	123	680	--	58	--	27	12	39	609
Total	955	3,167	2,026	6,148	335	1,129	201	469	391	1,061	5,410

p Preliminary.
[1] Conversion factor: 280 pounds to the barrel.

Table 55.—Salient statistics of petroleum coke in the United States, by month and refining district [1]

(Thousand barrels unless otherwise stated)

	1971							1972 [p]						
	Marketable	Production catalyst	Total	Yield (%)	Exports	Stocks (end of period)	Domestic demand	Marketable	Production catalyst	Total	Yield (%)	Exports	Stocks (end of period)	Domestic demand
By month:														
January	4,787	4,226	9,013	2.6	2,207	5,443	6,660	5,356	4,136	9,492	2.8	1,069	8,049	7,819
February	4,657	3,602	8,259	2.6	1,919	5,636	6,147	5,417	3,997	9,414	2.8	1,454	8,798	7,211
March	5,465	3,802	9,267	2.6	2,424	5,850	6,629	5,527	4,035	9,562	2.7	3,446	8,006	6,908
April	5,447	3,712	9,159	2.8	2,432	5,753	6,824	5,181	3,669	8,850	2.6	2,653	7,747	6,456
May	5,341	3,674	9,015	2.7	2,547	6,242	5,979	5,423	3,642	9,065	2.6	2,668	7,686	6,458
June	5,192	3,914	9,106	2.6	2,646	5,959	6,743	5,361	3,743	9,104	2.6	2,705	7,944	6,141
July	5,083	4,090	9,173	2.5	1,248	6,596	7,288	5,386	4,035	9,421	2.5	2,281	8,304	6,780
August	5,389	4,360	9,749	2.7	1,320	7,693	7,332	5,858	5,338	11,196	3.0	3,009	8,067	8,424
September	5,089	3,844	8,933	2.6	1,569	9,499	5,558	5,639	4,919	10,558	2.9	3,317	7,742	7,566
October	5,312	3,951	9,263	2.7	1,809	8,967	7,986	5,932	5,162	11,094	3.0	2,910	7,848	8,078
November	5,087	3,827	8,914	2.6	3,805	7,919	6,157	5,925	4,814	10,739	3.0	2,896	7,423	8,268
December	5,464	3,799	9,263	2.6	3,143	7,445	6,594	5,809	5,461	11,270	2.9	2,667	7,816	8,210
Total	62,313	46,801	109,114	2.6	27,069	7,445	79,897	66,814	52,951	119,765	2.8	31,075	7,816	88,319
By refining district:														
East Coast	4,702	7,083	11,785	2.4	291	1,127	11,459	4,995	8,192	13,187	2.8	395	1,042	13,113
Appalachian No. 1	--	150	150	.3		--		--	236	236	.4		--	
Appalachian No. 2	--	--	--	--		--		--	129	129	.7		--	
Indiana, Illinois, Kentucky, etc	8,461	9,584	18,045	2.4	2,095	328	28,861	9,692	10,537	20,229	2.6	2,319	691	31,220
Minnesota, Wisconsin, etc	2,095	1,009	3,104	3.9		363		2,136	1,269	3,405	4.1		620	
Oklahoma, Kansas, etc	6,648	3,252	9,900	3.0		169		7,158	3,246	10,404	3.1		177	
Texas Inland	515	1,890	2,405	1.7		1		523	2,288	2,811	1.8		12	
Texas Gulf Coast	8,061	12,281	20,342	2.3		277		8,186	13,501	21,687	2.3		306	
Louisiana Gulf Coast	7,307	5,784	13,041	2.5	9,881	303	28,039	8,948	5,394	14,342	2.4	9,569	112	30,451
Arkansas, Louisiana Inland, etc	1,365	700	2,065	3.8		333		610	348	958	2.0		438	
New Mexico	--	111	111	.7		--		--	176	176	1.1		--	
Rocky Mountain	1,149	1,897	3,046	2.0	--	1,805	2,956	1,350	2,209	3,559	2.5	--	1,803	3,561
West Coast	22,010	3,110	25,120	3.9	14,802	2,739	8,582	23,216	5,426	28,642	4.1	18,792	2,615	9,974
Total	62,313	46,801	109,114	2.6	27,069	7,445	79,897	66,814	52,951	119,765	2.8	31,075	7,816	88,319

[p] Preliminary.
[1] Conversion factor: 5.0 barrels to the short ton.

Table 56.—Production of miscellaneous finished oils at refineries and natural gas processing plants in the United States in 1972, by district and class

(Thousand barrels)

District	Absorption	Petrolatum	Specialty oils	Petrochemicals	Other products	Total
East Coast	--	--	1,311	763	118	2,192
Appalachian No. 1	15	110	36	10	--	171
Appalachian No. 2	--	--	27	14	--	41
Indiana, Illinois, Kentucky, etc	86	13	660	659	30	1,448
Minnesota, Wisconsin, North Dakota, South Dakota	--	--	--	133	--	133
Oklahoma, Kansas, etc	108	216	789	--	307	1,420
Texas Inland	137	--	1,116	972	154	2,379
Texas Gulf	27	294	863	2,517	542	4,243
Louisiana Gulf	656	72	249	870	57	1,904
Arkansas, Louisiana Inland	102	--	59	33	--	194
Rocky Mountain, New Mexico	1	34	--	43	--	78
West Coast	19	25	1,227	705	213	2,189
Total:						
1972	1,151	764	[1] 6,337	6,719	1,421	16,392
1971	1,279	588	6,380	5,951	1,229	15,427

[1] Specialty oils include hydraulic, 236; insulating, 325; medicinal, 341; rust preventatives, 13; sand-frac, 1,116; spray oils, 294; and other, 4,012.

Table 57.—Crude, refined, products, plant condensate, and unfinished oils imported into the United States, by month [1]

(Thousand barrels)

Year and class	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1971													
Crude petroleum	34,772	37,655	43,235	45,207	46,540	50,337	54,768	58,755	57,012	59,617	59,557	65,962	613,417
Petroleum products:													
Motor gasoline	2,158	1,309	1,991	1,893	1,566	1,541	1,652	1,676	1,718	1,115	2,304	2,735	21,658
Jet fuel:													
Naphtha type	684	903	565	462	637	1,401	1,086	1,413	1,245	916	870	910	11,092
Kerosine type	2,828	4,621	4,101	3,560	4,376	4,778	5,157	4,688	4,536	4,127	4,352	7,496	54,620
Total jet fuel	3,512	5,524	4,666	4,022	5,013	6,179	6,243	6,101	5,781	5,043	5,222	8,406	65,712
Liquefied gases:													
Butane	1,290	981	657	934	1,069	901	1,033	955	1,024	2,013	1,566	1,626	14,049
Propane	1,756	1,418	1,078	705	501	661	446	454	667	940	1,286	1,694	11,606
Total liquefied gases	3,046	2,399	1,735	1,639	1,570	1,562	1,479	1,409	1,691	2,953	2,852	3,320	25,655
Kerosine	1	--	1	--	--	--	--	--	48	23	9	107	189
Distillate fuel oil	6,484	5,200	5,585	3,237	2,874	3,509	3,327	2,841	2,963	3,679	5,098	10,986	55,783
Residual fuel oil	55,193	49,635	57,598	47,229	46,634	43,540	45,231	39,741	43,545	42,581	47,100	59,673	577,700
Petrochemical feedstocks	620	385	125	47	532	592	362	789	616	203	290	548	5,109
Special naphthas	110	430	34	2	57	46	2	259	141	141	340	262	1,824
Lubricants	1	2	1	1	--	1	--	--	2	--	1	1	10
Wax	8	8	--	14	13	13	--	12	12	--	13	--	93
Asphalt	531	218	796	539	552	585	685	840	1,021	574	571	304	7,216
Plant condensate	203	368	514	502	557	1,576	1,594	1,528	1,857	1,638	1,126	1,858	13,321
Unfinished oils	3,019	2,591	2,674	3,268	3,020	3,527	4,420	4,686	4,367	4,358	3,884	5,379	45,193
Total petroleum products	74,886	68,069	75,720	62,393	62,388	62,671	64,995	59,882	63,762	62,308	68,810	93,579	819,463
Total crude and products	109,658	105,724	118,955	107,600	108,928	113,008	119,763	118,637	120,774	121,925	128,367	159,541	1,432,880

1972[p]

Crude petroleum	63,419	60,344	64,066	60,129	66,958	62,544	67,635	65,463	70,909	78,003	68,978	82,687	811,135
Petroleum products:													
Motor gasoline	1,574	1,903	2,076	1,569	2,287	2,244	2,136	2,512	2,084	2,195	2,080	2,127	24,787
Jet fuel:													
Naphtha type	836	610	391	444	1,123	1,121	825	730	894	1,657	1,835	1,532	11,998
Kerosine type	4,705	5,778	4,776	3,270	3,812	7,636	4,286	4,882	4,796	7,220	3,699	4,316	59,176
Total jet fuel	5,541	6,388	5,167	3,714	4,935	8,757	5,111	5,612	5,690	8,877	5,534	5,848	71,174
Liquefied gases:													
Butane	1,814	1,485	1,997	958	1,095	1,000	1,067	1,029	1,146	1,603	1,564	1,792	16,550
Propane	2,517	2,035	1,559	820	761	610	531	751	873	1,691	1,719	1,984	15,851
Total liquefied gases	4,331	3,520	3,556	1,778	1,856	1,610	1,598	1,780	2,019	3,294	3,283	3,776	32,401
Kerosine	1	24	--	1	1	--	41	28	83	45	116	186	526
Distillate fuel oil	6,125	5,931	7,792	5,662	4,086	2,883	3,119	2,862	2,963	6,299	6,820	11,849	66,391
Residual fuel oil	58,658	55,761	59,718	50,265	48,770	49,455	49,416	51,244	48,736	51,303	53,075	61,000	637,401
Petrochemical feedstocks	130	181	389	21	581	210	274	301	332	340	87	332	3,178
Special naphthas	304	24	7	52	4	4	24	160	5	256	4	19	863
Lubricants	1	1	--	2	1	1	112	63	78	122	170	118	669
Wax	13	2	3	4	2	3	58	29	46	38	78	59	335
Asphalt	438	483	312	548	721	868	762	1,157	1,233	867	1,010	864	9,263
Plant condensate	1,748	1,758	2,196	1,782	2,701	2,414	2,770	3,809	3,039	2,963	3,365	3,383	31,428
Unfinished oils	5,520	4,189	3,234	3,542	2,495	3,011	3,339	3,600	3,956	4,214	3,846	4,759	45,705
Total petroleum products	84,384	80,165	84,450	68,940	68,440	71,460	68,760	72,657	70,264	80,813	79,468	94,320	924,121
Total crude and products	147,803	140,509	148,516	129,069	135,398	134,004	136,395	138,120	141,173	158,816	148,446	177,007	1,735,256

[p] Preliminary.

[1] Imports for onshore use of military jet fuel, distillate and residual fuel oils, and receipts from Puerto Rico, the Virgin Islands, and Guam included in these data are based on figures reported to the Department of the Interior. All other import figures are compiled from Department of Commerce data.

Table 58.—Crude oil and petroleum products imported into the United States, by country and receiving district

(Thousand barrels)

Country and PAD district	Crude oil[1]	Gasoline	Special naphtha	Kerosine	Distillate fuel oil[1,2]	No. 4 distillate fuel oil[3]	Residual fuel oil[1,2]	Military jet fuel	Commercial jet fuel	Liquefied gases	Plant condensate	Asphalt	Unfinished oils[1]	Lubricants	Wax	Petrochemical feedstocks	Total
1971																	
North America:																	
Canada	263,294	203	647	42	470	212	12,505	--	45	21,710	13,288	500	103	4	14	--	312,825
Mexico	--	--	--	--	--	--	1,424	--	--	4	--	--	8,569	--	2	--	9,999
Total	263,294	203	647	42	470	212	13,929	--	45	21,714	13,288	500	8,672	4	16	--	322,824
Central America and Caribbean:																	
Bahamas	--	--	145	--	404	175	47,843	--	4,549	--	--	--	1,886	--	--	--	54,827
British West Indies	--	--	--	--	--	--	142	--	--	--	--	--	--	--	--	--	142
Netherlands Antilles	--	117	80	--	10,969	6,973	116,412	150	20,494	230	--	3,151	5,991	--	13	--	157,607
Panama	--	--	141	--	305	--	336	--	906	--	--	--	526	--	--	--	2,214
Puerto Rico	--	20,442	--	--	8,369	--	--	--	--	--	--	--	4,294	--	--	1,680	34,785
Trinidad and Tobago	--	--	25	--	4,310	3,982	48,492	2,795	8,407	--	--	7	262	--	--	2,473	66,771
Virgin Islands	--	709	--	126	5,322	--	77,198	5,492	--	5	--	--	9,699	--	--	921	99,472
Total	--	21,268	391	126	29,679	11,130	290,423	8,437	34,356	235	--	3,158	22,658	--	13	5,074	415,818
South America:																	
Argentina	--	--	--	--	--	--	120	--	--	--	--	--	--	--	--	--	120
Bolivia	798	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	798
Brazil	--	--	--	--	--	--	1,184	--	--	--	--	--	--	--	--	--	1,184
Chile	261	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	261
Columbia	3,175	--	--	--	280	--	6,224	--	--	--	--	--	--	--	--	--	9,679
Venezuela	110,574	40	675	21	20,328	9,334	212,518	2,142	9,985	3,183	33	3,526	9,257	--	52	--	372,334
Total	114,808	40	675	21	20,608	9,334	220,046	2,142	9,985	3,183	33	3,526	9,257	--	52	--	384,376
Europe:																	
Belgium	--	--	--	--	--	--	1,715	--	255	--	--	--	--	--	--	--	1,970
France	--	--	--	--	--	--	1,777	--	--	--	--	--	--	1	--	35	1,813
Italy	--	--	--	--	1,806	1,391	25,653	--	1,186	--	--	--	--	1	--	--	28,646
Netherlands	--	--	--	--	--	--	6,674	--	112	--	--	32	--	1	12	--	6,831
Norway	--	--	--	--	--	--	367	--	--	--	--	--	--	--	--	--	367
Romania	--	--	--	--	1,611	1,611	243	--	--	--	--	--	--	--	--	--	1,854
Spain	--	147	--	--	210	210	3,826	--	--	--	--	--	--	--	--	--	4,183
Sweden	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	3
United Kingdom	--	--	--	--	150	150	3,190	--	153	--	--	--	--	--	--	--	3,493
Total	--	147	--	--	3,777	3,362	43,445	--	1,706	3	--	32	--	3	12	35	49,160

Middle East:																	
Abu Dhabi	29,026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29,026
Bahrain	--	--	--	--	742	--	1,007	--	2,656	--	--	--	181	--	--	--	4,586
Iran	38,576	--	--	--	--	--	--	--	1,591	157	--	--	494	--	--	--	40,818
Iraq	3,932	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,932
Kuwait	10,650	--	111	--	--	--	--	--	--	--	--	--	2,411	--	--	--	13,172
Saudi Arabia	41,971	--	--	--	76	--	3,392	--	89	350	--	--	923	--	--	--	46,801
Yemen	--	--	--	--	--	--	--	--	602	--	--	--	--	--	--	--	602
Total	124,155	--	111	--	818	--	4,399	--	4,938	507	--	--	4,009	--	--	--	138,937
Africa:																	
Algeria	4,685	--	--	--	--	--	870	--	--	--	--	--	--	--	--	--	5,555
Angola	1,301	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,301
Egypt, Arab Republic of	6,924	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,924
Gabon	--	--	--	--	--	--	111	--	--	1	--	--	--	--	--	--	112
Guinea	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1
Ivory Coast	--	--	--	--	--	--	136	--	--	--	--	--	--	--	--	--	136
Libya	19,426	--	--	--	168	168	1,453	--	--	1	--	--	--	--	--	--	21,048
Nigeria	34,826	--	--	--	72	72	2,397	--	--	--	--	--	--	--	--	--	37,295
Sierra Leone	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	2
Tunisia	1,199	--	--	--	100	100	--	--	--	--	--	--	--	--	--	--	1,299
Total	68,361	--	--	--	340	340	4,967	--	--	5	--	--	--	--	--	--	73,673
Asia:																	
Australia	2,567	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,567
Guam	--	--	--	--	--	--	147	513	--	--	--	--	--	--	--	--	660
Indonesia	40,232	--	--	--	--	--	344	--	--	8	--	--	--	--	--	--	40,584
Japan	--	--	--	--	91	--	--	--	931	--	--	--	--	3	--	--	1,025
Malaysia	--	--	--	--	--	--	--	--	2,659	--	--	--	597	--	--	--	3,256
Total	42,799	--	--	--	91	--	491	513	3,590	8	--	--	597	3	--	--	48,092
Total imports	613,417	21,658	1,824	189	55,783	24,378	577,700	11,092	54,620	25,655	13,321	7,216	45,193	10	93	5,109	1,432,880
Imports by PAD district:																	
District I	252,088	21,425	1,580	187	53,373	24,378	558,771	8,549	29,717	4,775	538	6,386	30,651	6	2	--	968,048
District II	137,064	--	61	2	258	--	3,953	--	3,043	10,859	4,580	160	--	2	--	--	159,982
District III	20,449	--	170	--	1,079	--	6,553	--	2,959	794	--	670	2,217	--	91	5,109	40,091
District IV	16,869	--	13	--	--	--	41	--	--	3,060	4,672	--	--	--	--	--	24,655
District V	186,947	233	--	--	1,073	--	8,382	2,543	18,901	6,167	3,531	--	12,325	2	--	--	240,104
1972 p																	
North America:																	
Canada	312,440	513	286	123	2,258	--	28,702	--	1,605	27,853	31,282	408	93	5	16	--	405,584
Mexico	--	--	--	--	--	--	1,775	--	--	--	--	--	5,925	--	10	--	7,710
Total	312,440	513	286	123	2,258	--	30,477	--	1,605	27,853	31,282	408	6,018	5	26	--	413,294

See footnotes at end of table.

Table 58.—Crude oil and petroleum products imported into the United States, by country and receiving district—Continued

(Thousand barrels)

Country and PAD district	Crude oil [1]	Gasoline	Special naphtha	Kerosine	Distillate fuel oil [1,2]	No. 4 distillate fuel oil [3]	Residual fuel oil [1,2]	Military jet fuel	Commercial jet fuel	Liquefied gases	Plant condensate	Asphalt	Unfinished oils [1]	Lubricants	Wax	Petrochemical feedstocks	Total
Central America and Caribbean:																	
Bahamas	--	--	--	148	1,449	380	54,746	10	6,503	--	--	--	679	--	--	--	63,535
El Salvador	--	--	--	--	--	--	145	--	--	--	--	--	--	--	--	--	145
Honduras	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
Leeward and Windward Islands	--	--	--	--	158	--	714	--	19	--	--	--	434	--	--	--	1,325
Netherlands Antilles	--	628	78	--	12,356	7,884	115,550	1,474	18,378	--	--	3,638	2,984	--	--	158	155,244
Panama	--	63	--	--	53	--	314	--	1,497	--	--	--	451	--	--	179	2,557
Puerto Rico	--	20,023	--	255	9,546	--	--	--	833	--	--	--	5,425	653	264	229	37,228
Trinidad	8,626	--	--	--	2,797	2,427	58,010	2,948	8,793	--	--	9	235	--	--	1,122	82,540
Virgin Islands	--	3,006	--	--	8,767	4,827	91,424	3,790	--	--	--	--	13,823	--	--	130	120,940
Total	8,626	23,720	78	403	35,126	15,518	320,904	8,222	36,023	--	--	3,647	24,031	653	264	1,818	463,515
South America:																	
Argentina	407	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	422
Brazil	--	--	--	--	786	--	994	--	--	--	--	--	--	--	--	--	1,780
Chile	--	--	--	--	--	--	--	--	--	126	--	--	--	--	--	--	126
Colombia	1,695	--	--	--	778	--	3,189	--	--	--	--	--	16	--	11	--	5,689
Ecuador	5,331	--	--	--	--	--	548	--	--	--	--	--	--	--	--	--	5,879
Peru	--	--	--	--	--	--	625	--	--	--	--	--	--	--	--	--	625
Venezuela	93,300	33	499	--	18,001	7,678	210,480	1,412	9,321	3,993	146	5,163	8,615	--	13	293	351,269
Total	100,733	33	499	--	19,565	7,678	215,851	1,412	9,321	4,119	146	5,163	8,631	--	24	293	365,790
Europe:																	
Belgium	--	--	--	--	336	336	6,524	33	298	--	--	--	--	--	--	--	7,191
Denmark	--	--	--	--	--	--	122	--	--	--	--	--	--	--	--	--	122
France	--	--	--	--	--	--	2,156	--	128	--	--	--	--	1	--	166	2,451
Greece	--	--	--	--	--	--	145	--	--	--	--	--	--	--	--	--	145
Italy	--	196	--	--	3,453	3,453	24,979	--	1,411	--	--	--	--	--	--	341	30,380
Netherlands	--	--	--	--	974	108	5,996	13	235	--	--	45	535	3	--	--	7,801
Romania	--	--	--	--	2,973	2,767	948	--	--	--	--	--	--	--	--	--	3,921
Spain	--	136	--	--	84	84	6,171	--	49	--	--	--	--	--	--	--	6,440
Sweden	--	--	--	--	--	--	662	--	--	--	--	--	--	--	--	--	662
Turkey	--	189	--	--	--	--	--	--	--	--	--	--	354	--	--	--	543
U.S.S.R.	323	--	--	--	190	190	2,360	--	--	--	--	--	141	--	--	--	3,014
United Kingdom	--	--	--	--	--	--	3,200	--	--	1	--	--	--	4	--	165	3,370
West Germany	--	--	--	--	--	--	2	--	--	--	--	--	--	3	4	--	9
Total	323	521	--	--	8,010	6,938	53,265	46	2,121	1	--	45	1,030	11	4	672	66,049

Middle East:																	
Bahrain	--	--	--	--	46	--	1,154	3	2,708	--	--	--	1,492	--	--	--	5,403
Iran	49,700	--	--	--	143	--	407	--	1,415	--	--	--	--	--	--	234	51,899
Iraq	1,315	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,315
Kuwait	13,205	--	--	--	931	931	72	--	93	5	--	--	2,083	--	--	--	16,389
Oman	--	--	--	--	--	--	--	--	--	25	--	--	--	--	--	--	25
Qatar	1,263	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,263
Saudi Arabia	63,626	--	--	--	77	--	3,720	196	190	210	--	--	1,381	--	--	--	69,400
United Arab Emirates	26,873	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26,873
Yemen	--	--	--	--	--	--	--	--	407	--	--	--	--	--	--	--	407
Total	155,982	--	--	--	1,197	931	5,353	199	4,813	240	--	--	4,956	--	--	234	172,974
Africa:																	
Algeria	31,753	--	--	--	--	--	2,081	--	--	--	--	--	--	--	--	--	33,834
Angola	5,785	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,785
Canary Islands	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	161	161
Egypt	3,091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,091
Gabon	--	--	--	--	--	--	109	--	--	--	--	--	--	--	--	--	109
Ghana	--	--	--	--	--	--	240	--	--	--	--	--	--	--	--	--	240
Ivory Coast	--	--	--	--	--	--	360	--	--	--	--	--	--	--	--	--	360
Libya	40,069	--	--	--	--	--	4,668	--	--	120	--	--	--	--	--	--	44,857
Nigeria	88,887	--	--	--	62	62	2,882	--	--	--	--	--	--	--	--	--	91,831
Tunisia	2,520	--	--	--	123	123	65	--	--	--	--	--	--	--	--	--	2,708
Total	172,105	--	--	--	185	185	10,405	--	--	120	--	--	--	--	--	161	182,976
Asia:																	
Burma	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	2
Ceylon	--	--	--	--	--	--	6	--	--	--	--	--	--	--	--	--	6
Indonesia	59,633	--	--	--	--	--	554	--	--	--	--	--	--	--	--	--	60,187
Japan	--	--	--	--	--	--	24	--	2,033	--	--	--	59	--	15	--	2,131
Malaysia	966	--	--	--	--	--	204	422	1,470	68	--	--	300	--	--	--	3,430
Okinawa	--	--	--	--	--	--	--	132	--	--	--	--	475	--	--	--	607
Singapore	--	--	--	--	--	--	2	49	778	--	--	--	--	--	--	--	829
Taiwan	--	--	--	--	--	--	--	163	--	--	--	--	--	--	--	--	163
Total	60,599	--	--	--	--	--	790	766	4,281	68	--	--	834	--	17	--	67,355
Oceania:																	
Australia	327	--	--	--	--	--	262	--	1,012	--	--	--	--	--	--	--	1,601
Guam	--	--	--	--	--	--	45	259	--	--	--	--	--	--	--	--	304
Hawaii Foreign Trade Zone	--	--	--	--	50	--	49	1,094	--	--	--	--	205	--	--	--	1,398
Total	327	--	--	--	50	--	356	1,353	1,012	--	--	--	205	--	--	--	3,303
Total imports	811,135	24,787	863	526	66,391	31,250	637,401	11,998	59,176	32,401	31,428	9,263	45,705	669	335	3,178	1,735,256
Imports by PAD district:																	
District I	354,549	24,609	508	524	64,244	31,250	616,990	8,336	30,294	5,336	798	8,828	30,715	661	305	--	1,146,697
District II	171,338	43	49	2	473	--	5,458	--	2,789	14,441	16,478	55	--	5	5	--	211,136
District III	28,331	--	250	--	1,191	--	6,212	--	4,451	787	--	380	1,548	--	25	3,178	46,353
District IV	14,126	--	56	--	--	--	--	--	--	5,405	11,162	--	--	--	--	--	30,749
District V	242,791	135	--	--	483	--	8,741	3,662	21,642	6,432	2,990	--	13,442	3	--	--	300,321

p Preliminary.

[1] Imports of crude and unfinished oils reported to the Bureau of Mines, imports for onshore military jet fuel, distillate and residual fuel oil, and receipts from Puerto Rico, the Virgin Islands, and Guam are based on data reported to the Department of the Interior. All other import figures are compiled from Department of Commerce data.

[2] Includes quantities imported duty-free for supply of vessels and aircraft engaged in foreign trade.

[3] Included in distillate fuel oil.

Table 59.—Petroleum oils, crude and refined, exported from the United States, including shipments, to territories and possessions, by month [1]

(Thousand barrels)

Year and class	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1971													
Crude petroleum	--	2	1	313	8	--	--	--	143	36	--	--	503
Refined products:													
Gasoline: [2]													
Motor	22	26	19	141	43	24	21	23	38	14	16	23	410
Aviation	114	226	65	79	63	72	109	66	236	35	76	98	1,239
Total gasoline	136	252	84	220	106	96	130	89	274	49	92	121	1,649
Jet fuel:													
Naphtha type	112	86	125	233	114	121	91	116	108	15	99	97	1,317
Kerosine type	--	89	21	40	23	--	--	--	46	--	--	--	219
Total jet fuel	112	175	146	273	137	121	91	116	154	15	99	97	1,536
Liquefied gases:													
Butane	451	422	479	438	327	330	386	352	336	393	384	427	4,725
Propane	354	329	334	362	331	377	384	402	409	430	442	511	4,665
Total liquefied gases	805	751	813	800	658	707	770	754	745	823	826	938	9,390
Kerosine	24	20	15	24	5	27	25	4	7	11	11	8	181
Distillate fuel oil	272	241	378	169	248	410	316	259	94	135	161	78	2,761
Residual fuel oil	494	1,355	1,521	1,749	1,167	1,090	991	1,377	868	909	1,200	496	13,217
Petrochemical feedstocks	495	275	593	505	309	665	158	752	268	658	356	231	5,265
Special naphthas	103	233	113	146	114	98	129	129	63	162	77	88	1,455
Lubricants	1,249	1,255	1,376	1,528	1,439	1,056	1,377	1,598	1,359	1,113	1,290	1,185	15,825
Wax	140	154	178	163	145	143	150	137	145	93	58	154	1,660
Coke	2,207	1,919	2,424	2,432	2,547	2,646	1,248	1,320	1,569	1,809	3,805	3,143	27,069
Asphalt	33	23	29	20	21	28	23	33	26	25	16	29	306
Miscellaneous	69	78	106	82	82	107	75	113	121	44	78	73	1,028
Total refined	6,139	6,731	7,776	8,111	6,978	7,194	5,483	6,681	5,693	5,846	8,069	6,641	81,342
Total crude and refined	6,139	6,733	7,777	8,424	6,986	7,194	5,483	6,681	5,836	5,882	8,069	6,641	81,845
1972 [p]													
Crude petroleum	--	--	--	187	--	--	--	--	--	--	--	--	187

Refined products:													
Gasoline:													
Motor	36	14	28	28	16	15	18	13	38	177	22	20	425
Aviation	104	37	120	26	[p]5	64	60	19	22	14	15	13	529
Total gasoline	140	51	148	54	51	79	78	32	60	191	37	33	954
Jet fuel:													
Naphtha type	99	18	104	15	145	152	127	15	16	16	17	187	911
Kerosine type	--	--	--	10	--	--	--	--	--	--	--	36	46
Total jet fuel	99	18	104	25	145	152	127	15	16	16	17	223	957
Liquefied gases:													
Butane	393	390	534	375	394	379	413	414	415	399	432	429	4,967
Propane	498	488	572	402	442	430	435	598	526	684	633	794	6,502
Total liquefied gases	891	878	1,106	777	836	809	848	1,012	941	1,083	1,065	1,223	11,469
Kerosine	8	3	8	4	4	11	19	8	2	5	10	7	89
Distillate fuel oil	96	138	94	236	52	107	62	18	119	14	46	232	1,214
Residual fuel oil	547	548	1,806	1,507	567	603	1,051	1,161	905	1,476	872	1,017	12,060
Petrochemical feedstocks	579	386	314	309	297	429	363	333	99	135	823	390	4,457
Special naphthas	117	72	169	101	153	98	230	117	120	117	91	102	1,487
Lubricants	1,441	990	1,528	1,337	1,143	1,130	1,131	1,248	1,134	1,166	1,365	1,382	14,995
Wax	117	98	167	88	131	68	90	90	62	56	94	68	1,129
Coke	1,069	1,454	3,446	2,653	2,668	2,705	2,281	3,009	3,317	2,910	2,896	2,667	31,075
Asphalt	27	27	31	19	25	27	24	43	37	25	24	24	333
Miscellaneous	114	78	77	63	104	91	80	89	82	92	90	102	1,062
Total refined	5,245	4,741	8,998	7,173	6,176	6,309	6,384	7,175	6,894	7,286	7,430	7,470	81,281
Total crude and refined	5,245	4,741	8,998	7,360	6,176	6,309	6,384	7,175	6,894	7,286	7,430	7,470	81,468

[p] Preliminary.
[1] Compiled from records of U.S. Department of Commerce.
[2] Includes benzol, natural gasoline, and antiknock compounds.

Table 60.—Crude oil and petroleum products exported from the United States by countries of destination

(Thousand barrels)

	Crude oil	Gasoline	Naphtha	Jet fuel	Kerosine	Distillate oil	Residual oil	Lubricating oil	Asphalt	Liquefied petroleum gases	Wax	Coke	Petrochemical feedstocks	Miscellaneous products	Total
1971															
North America:															
Canada	60	121	217	2	10	441	3,334	1,540	68	97	116	2,704	581	153	9,444
Mexico	--	237	65	209	1	514	3,521	211	126	9,075	147	998	62	14	15,180
Total	60	358	282	211	11	955	6,855	1,751	194	9,172	263	3,702	643	167	24,624
Central America and Caribbean:															
Bahamas	--	11	4	--	(1)	15	202	22	1	67	(1)	--	2	--	324
Costa Rica	--	--	3	--	--	--	--	49	1	--	9	--	2	3	67
Guatemala	--	(1)	7	--	--	--	--	43	3	19	37	--	1	6	116
Honduras	--	--	2	--	--	--	--	41	5	1	8	--	1	1	59
Jamaica	181	(1)	5	--	--	--	1,476	143	1	(1)	2	21	2	--	1,831
Netherlands Antilles	--	(1)	1	--	--	459	--	262	(1)	--	1	--	(1)	(1)	723
Panama	--	(1)	(1)	--	--	--	120	63	1	--	7	16	1	--	208
Puerto Rico	--	--	43	--	--	16	2	578	3	9	23	246	21	24	965
Trinidad	--	(1)	10	--	--	--	--	41	1	--	6	--	(1)	1	59
Virgin Islands	--	82	1	--	--	20	--	25	1	5	--	--	1	--	135
Others	--	2	23	--	(1)	--	--	101	6	3	20	1	3	9	168
Total	181	95	99	--	--	510	1,800	1,368	23	104	113	284	34	44	4,655
South America:															
Argentina	--	(1)	10	--	(1)	--	(1)	1,031	(1)	--	2	--	9	1	1,053
Bolivia	--	29	--	--	--	--	--	13	--	--	6	--	--	1	49
Brazil	--	277	56	--	1	--	160	1,728	5	57	19	285	421	161	3,170
Chile	--	--	1	--	1	--	(1)	261	4	2	12	--	2	14	297
Columbia	--	(1)	1	--	--	--	(1)	28	1	--	79	--	2	6	117
Ecuador	--	(1)	3	--	--	--	--	28	1	(1)	23	--	1	4	60
Peru	(1)	(1)	(1)	--	--	143	162	90	2	1	19	--	1	5	423
Venezuela	--	(1)	30	--	2	--	1	91	5	(1)	22	74	2	22	249
Others	--	--	3	--	--	--	(1)	60	(1)	(1)	--	--	2	1	66
Total	--	306	104	--	4	143	323	3,330	18	60	182	359	440	215	5,484

Europe:																
Belgium	--	40	55	--	--	(1)	1	741	8	--	50	1,625	29	11	2,560
Denmark	--	(1)	2	--	--	--	(1)	31	--	1	4	--	2	2	42
France	--	3	130	--	(1)	1	1	114	7	--	43	691	703	4	1,697
Greece	--	--	--	--	--	--	6	20	--	--	--	386	--	--	412
Italy	(1)	2	51	--	1	26	631	522	1	1	58	1,512	180	52	3,037
Netherlands	--	291	138	--	2	15	92	700	(1)	(1)	30	2,412	378	53	4,111
Norway	--	(1)	--	--	--	--	--	19	2	--	1	821	1	--	844
Spain	--	(1)	(1)	--	--	--	112	134	(1)	(1)	36	733	188	13	1,216
Sweden	--	(1)	1	--	--	--	(1)	134	1	--	4	366	279	5	790
United Kingdom	120	25	140	--	69	4	419	811	1	30	115	337	1,087	15	3,173
West Germany	--	38	48	--	34	18	1	266	3	(1)	426	3,256	200	36	4,326
Yugoslavia	--	--	--	--	--	--	--	1	(1)	--	--	189	1	--	191
Others	--	2	4	--	(1)	1	21	98	3	2	20	9	9	11	180
Total	120	401	569	--	106	65	1,284	3,591	26	34	787	12,337	3,057	202	22,579
Middle East:															
Bahrain	--	--	(1)	--	--	--	--	7	(1)	--	(1)	83	--	(1)	90
Iran	--	1	(1)	--	--	--	--	26	1	--	(1)	30	1	(1)	59
Israel	--	--	--	--	--	--	1	43	2	--	3	24	2		75
Saudi Arabia	--	(1)	1	--	--	(1)	--	76	(1)	--	(1)	--	2	(1)	79
Turkey	--	(1)	1	--	--	--	--	640	(1)	(1)	(1)	--	4	14	659
Others	--	(1)	1	--	--	(1)	1	60	1	--	--	--	3	--	66
Total	--	1	3	--	--	--	2	852	4	--	3	113	34	16	1,028
Africa:															
Egypt, Arab Republic of	--	--	(1)	--	1	--	(1)	39	(1)	--	(1)	--	(1)	(1)	40
Ghana	--	--	--	--	--	--	--	55	1	--	1	318	1	--	376
Nigeria	2	(1)	2	--	6	--	--	37	(1)	(1)	20	--	4	17	88
South Africa, Republic of	--	4	43	--	3	--	227	366	5	1	74	23	137	61	944
Tunisia	--	--	--	--	--	--	--	67	--	--	--	--	--	--	67
Others	--	2	14	--	3	1	--	113	6	--	22	--	9	12	182
Total	2	6	59	--	13	1	227	677	12	1	117	341	151	90	1,697
Asia and Oceania:															
Australia	--	3	56	--	6	--	4	237	3	2	47	693	789	66	1,906
French Pacific Islands	--	91	(1)	--	19	76	130	5	(1)	1	--	--	(1)	--	322
India	--	135	--	--	--	--	--	583	7	--	1	59	1	--	786
Indonesia	--	(1)	(1)	--	--	--	--	118	2	--	2		2	6	130
Japan	139	1	211	--	11	552	2,343	1,732	9	13	59	8,788	84	138	14,080
Korea	--	--	--	--	--	--	--	26	(1)	--	22	--	7	--	55
Malaysia	--	(1)	7	--	(1)	--	(1)	118	(1)	--	(1)	67	1	2	195
New Zealand	--	(1)	19	--	(1)	--	1	26	(1)	2	8	234	3	25	318
Philippines	--	(1)	19	--	1	--	224	363	2	--	14	(1)	4	16	643
Singapore	--	156	1	--	2	--	--	86	1	--	1	--	1	3	251
South Vietnam	--	--	--	--	--	--	(1)	490	1	--	27	--	7	--	525
Thailand	--	(1)	3	--	--	--	(1)	305	(1)	--	2	--	2	5	317
Taiwan	--	--	1	--	--	--	(1)	54	1	--	6	92	4	11	169
U.S. Pacific Islands [2]	--	96	4	1,325	7	459	22	5	--	--	--	--	--	--	1,918
Others	1	--	18	--	1	--	2	108	3	1	6	--	1	22	168
Total	140	482	339	1,325	47	1,087	2,726	4,256	29	19	195	9,933	906	294	21,778
Grand total	503	1,649	1,455	1,536	181	2,761	13,217	15,825	306	9,390	1,660	27,069	5,265	1,028	81,845

See footnotes at end of table.

Table 60.—Crude oil and petroleum products exported from the United States by countries of destination—Continued

(Thousand barrels)

	Crude oil	Gasoline	Naphtha	Jet fuel	Kerosine	Distillate oil	Residual oil	Lubricating oil	Asphalt	Liquefied petroleum gases	Wax	Coke	Petrochemical feedstocks	Miscellaneous products	Total
1972															
North America:															
Canada	--	68	321	58	6	84	3,186	1,457	79	117	120	3,370	579	154	9,599
Mexico	--	262	62	199	--	45	1,818	247	176	10,330	148	1,720	36	18	15,061
Total	--	330	383	257	6	129	5,004	1,704	255	10,447	268	5,090	615	172	24,660
Central America and Caribbean:															
Bahamas	--	12	3	--	(1)	16	707	24	(1)	26	--	--	1	(1)	789
British West Indies	--	--	(1)	--	--	--	134	(1)	(1)	(1)	(1)	--	(1)	(1)	134
Jamaica	--	(1)	2	--	--	--	125	112	2	(1)	2	(1)	1	3	247
Netherlands Antilles	--	(1)	1	--	--	161	(1)	90	2	--	1	--	(1)	(1)	255
Panama	--	--	6	--	--	--	542	49	(1)	--	6	--	1	1	605
Puerto Rico	--	2	41	--	(1)	(1)	196	497	--	2	25	408	21	14	1,206
Trinidad	--	(1)	20	--	--	--	--	55	1	--	3	--	2	2	83
Virgin Islands	--	85	--	10	3	15	1	33	3	(1)	2	1	(1)	8	161
Others	--	1	39	--	--	--	--	224	8	8	50	2	15	15	362
Total	--	100	112	10	3	192	1,705	1,084	16	36	89	411	41	43	3,842
South America:															
Argentina	--	(1)	5	--	(1)	8	(1)	410	(1)	--	4	--	11	2	440
Brazil	--	174	86	--	(1)	--	188	1,903	2	47	8	378	325	177	3,288
Chile	--	--	1	--	--	1	8	211	--	--	10	--	1	17	249
Ecuador	--	--	1	--	--	--	--	26	2	1	10	--	1	3	44
Peru	--	(1)	(1)	--	(1)	--	(1)	88	(1)	--	5	--	1	5	99
Venezuela	--	2	50	--	2	--	3	96	6	--	12	68	1	20	260
Others	--	(1)	6	--	1	--	1	105	1	4	6	--	4	9	137
Total	--	176	149	--	3	9	200	2,839	11	52	55	446	344	233	4,517
Europe:															
Belgium	--	11	42	--	--	--	135	959	3	(1)	23	3,375	22	11	4,581
Denmark	--	(1)	1	--	--	--	238	22	1	(1)	5	--	1	2	270
France	--	3	78	--	--	1	27	108	1	28	40	726	688	3	1,703
Greece	--	(1)	1	--	(1)	--	202	25	--	(1)	--	246	1	1	476
Ireland	--	--	1	--	--	--	122	12	(1)	--	1	--	(1)	(1)	136
Italy	--	1	52	--	4	27	993	377	2	(1)	82	1,290	273	40	3,141
Netherlands	--	153	161	--	2	63	436	680	--	--	22	2,801	612	75	4,505
Norway	--	--	1	--	--	--	--	16	--	--	1	815	1	2	836
Spain	--	(1)	1	--	--	--	302	104	2	--	14	684	461	4	1,572
Sweden	--	1	1	--	--	--	276	99	1	--	3	534	4	4	923
United Kingdom	--	5	59	--	--	1	1,511	1,051	3	1	45	365	587	16	3,644
West Germany	--	1	52	--	30	1	(1)	441	2	(1)	299	4,884	32	40	5,782
Yugoslavia	--	--	(1)	--	--	--	--	2	--	--	--	121	1	1	125
Others	--	2	6	--	--	1	1	96	3	3	10	3	5	5	135
Total	--	177	456	--	36	94	4,243	3,992	18	32	545	15,344	2,688	204	27,829

Middle East:																
Bahrain	--	(1)	(1)	--	--	--	--	6	(1)	(1)	--	165	1	1	173
Iran	--	(1)	1	--	(1)	--	(1)	37	1	(1)	--	56	1	2	98
Israel	--	(1)	(1)	--	6	--	(1)	46	1	(1)	(1)	(1)	3	2	58
Saudi Arabia	--	(1)	2	--	--	--	--	190	--	(1)	--	--	3	1	196
Turkey	--	(1)	(1)	--	--	--	--	558	--	--	(1)	--	3	14	575
Others	--	(1)	1	--	--	--	(1)	52	2	--	(1)	(1)	2	1	58
Total	--	(1)	4	--	6	--	--	889	4	(1)	(1)	221	13	21	1,158
Africa:																
Egypt, Arab Republic of	--	(1)	(1)	--	--	--	--	151	--	--	(1)	--	(1)	(1)	151
Ghana	--	--	1	--	(1)	--	--	92	(1)	--	--	264	1	2	360
Nigeria	--	1	(1)	--	2	--	--	36	1	--	(1)	--	1	11	52
South Africa, Republic of	--	1	58	--	2	--	330	241	8	2	35	38	121	28	864
Tunisia	--	--	--	--	(1)	--	--	117	(1)	--	(1)	--	--	--	117
Others	--	(1)	11	--	1	--	21	116	8	3	12	(1)	15	13	200
Total	--	2	70	--	5	--	351	753	17	5	47	302	138	54	1,744
Asia and Oceania:																
Australia	--	1	61	--	2	--	2	217	2	2	22	507	499	50	1,365
French Pacific Islands	--	82	--	--	10	12	29	10	1	(1)	--	--	(1)	--	144
India	--	(1)	12	--	--	--	(1)	465	--	(1)	6	81	2	1	567
Indonesia	--	1	1	--	--	--	--	147	(1)	--	1	--	4	18	172
Japan	187	2	125	--	14	203	874	1,246	4	888	55	8,305	90	169	11,662
Malaysia	--	(1)	1	--	--	--	--	130	(1)	--	1	62	(1)	1	195
New Zealand	--	(1)	9	--	--	--	(1)	28	(1)	3	7	193	5	46	291
Philippines	--	2	17	--	1	--	62	285	(1)	(1)	9	(1)	4	14	394
South Vietnam	--	--	(1)	--	--	--	--	303	(1)	--	11	--	1	6	321
Taiwan	--	(1)	1	--	--	--	--	56	2	--	4	68	8	10	149
Thailand	--	(1)	7	--	--	--	(1)	401	--	--	--	--	--	6	414
U.S. Pacific Islands [2]	--	81	47	690	3	575	5	64	--	--	--	--	--	--	1,465
Others	--	(1)	32	--	--	--	85	382	3	4	9	45	5	14	579
Total	187	169	313	690	30	790	557	3,734	12	897	125	9,261	618	335	17,718
Grand total	187	954	1,487	957	89	1,214	12,060	14,995	333	11,469	1,129	31,075	4,457	1,062	81,468

[1] Less than ½ unit.
[2] Data reported by shippers to the Bureau of Mines.

Table 61.—Crude petroleum: World production, by country

(Thousand 42-gallon barrels)

Country	1970	1971	1972 p
North America:			
Canada	461,177	491,846	560,693
Cuba e	800	785	775
Mexico [1]	r 177,599	177,274	185,011
Trinidad and Tobago	51,047	47,148	51,719
United States [1]	3,517,450	3,453,914	3,455,368
South America:			
Argentina	143,428	154,514	158,464
Barbados	--	19	31
Bolivia	8,820	13,206	15,967
Brazil	60,923	63,513	61,088
Chile	12,432	12,883	12,527
Columbia	79,594	78,101	71,674
Ecuador	1,444	1,354	28,579
Peru	26,272	22,588	23,635
Venezuela	1,353,420	1,295,406	1,178,487
Europe:			
Albania	9,995	8,674	10,508
Austria	19,515	17,549	17,284
Bulgaria	2,438	2,336	1,825
Czechoslovakia	1,424	1,356	1,322
Denmark	--	--	622
France	16,825	13,651	10,811
Germany, East	r 439	1,502	1,864
Germany, West	54,427	53,597	51,271
Hungary	14,780	14,879	15,084
Italy	9,575	8,952	7,850
Netherlands	13,080	11,727	10,885
Norway	--	2,081	12,126
Poland	3,146	3,116	2,574
Romania	102,067	102,479	105,296
Spain	1,457	874	1,020
U.S.S.R.	2,594,550	2,778,300	2,895,900
United Kingdom	r 838	1,499	2,628
Yugoslavia	21,140	21,932	23,709
Africa:			
Algeria	371,767	279,627	384,858
Angola	36,499	33,922	51,405
Congo (Brazzaville)	137	130	2,522
Egypt, Arab Republic of	119,165	106,993	77,592
Gabon	39,292	41,911	45,671
Libya	1,209,314	1,007,687	819,619
Morocco	335	172	216
Nigeria	395,836	558,375	665,282
Tunisia	34,296	31,542	31,607
Asia:			
Bahrain	27,973	27,346	25,508
Brunei	50,233	47,482	67,008
Burma	6,388	6,652	7,466
China, People's Republic of e	146,000	186,150	216,080
India	52,596	52,091	56,965
Indonesia	311,628	325,673	395,581
Iran	1,397,460	1,661,901	1,843,869
Iraq	569,726	624,312	529,419
Israel e [2]	31,798	44,618	43,920
Japan	5,656	5,529	5,242
Kuwait [3]	r 1,090,039	1,167,329	1,201,346
Malaysia	6,299	25,071	33,867
Oman	121,210	107,430	103,131
Pakistan	3,400	3,000	3,294
Qatar	132,456	156,882	176,545
Saudi Arabia [3]	r 1,387,265	1,741,149	2,202,049
Syrian Arab Republic	29,356	36,462	45,209
Taiwan	638	803	910
Thailand	70	95	47
Turkey	24,776	25,031	24,416
United Arab Emirates:			
Abu Dhabi	252,179	341,007	384,190
Dubai	31,321	45,648	55,942
Oceania:			
Australia	65,149	112,914	119,516
New Zealand [1]	467	804	1,119
Total	r 16,710,826	17,662,793	18,598,008

e Estimate. p Preliminary. r Revised.

[1] Includes field condensate.

[2] Estimates of Israeli production from Sinai peninsula oilfields included with Israel rather than with Arab Republic of Egypt.

[3] Data for both Kuwait and Saudi Arabia include those countries' share of production from the Kuwait-Saudi Arabia Partitioned Zone.