Crude Petroleum and Petroleum Products

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GENERAL SUMMARY

THE TOTAL demand [4] for petroleum and petroleum products in 1960 was 9,879,000 barrels daily, compared with 9,662,000 barrels per day in 1959. Exports continued to decline and were 4.3 percent below the 1959 level. Product stocks were high at the beginning of the year, and some progress was made in reducing this surplus during the first half. Although demand was lagging, refiners processed crude at record levels from June through October, and stocks climbed upward. Fortunately, extremely cold weather in December created a demand, which required a withdrawal of 1,395,000 barrels a day from refined product stocks, and at the end of 1960 these stocks were 17 million barrels below the December 31, 1959, total.

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[4] Certain terms, as used in this chapter, are more or less peculiar to the petroleum industry. Principal terms and their meanings follow:
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 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.
Principal product.—Gasoline, kerosine, distillate fuel oil, and residual fuel oil.
Exports.—Total shipments from the United States, including shipments to United States territories and possessions.
Barrels.—42 gallons per barrel.

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The total new supply of all oils in the United States in 1960 was 9,796,000 barrels daily. Crude oil production represented 71.8 percent of total new supply, natural-gas liquids 9.6 percent, and imports 18.6 percent.

TABLE 1.—Salient statistics of crude petroleum, refined products, and natural-gas liquids in the United States [1]

	1956 [2]	1957 [2]	1958 [2]	1959 [2]	1959 [3]	1959 [4]	1960 [4 5]
Crude petroleum:							
Domestic production thousand barrels [6]	2,617,283	2,616,901	2,448,987	2,574,403	2,574,590	2,574,590	2,574,933
World production ...do...	6,124,676	6,439,481	6,607,982	7,133,663	7,133,663	7,133,663	7,684,752
United States proportion percent	43	41	37	36	36	36	34
Imports [7] thousand barrels [6]	341,833	373,255	348,007	352,531	352,344	352,344	371,575
Exports [8] ...do...	28,624	50,243	4,346	2,526	2,526	2,526	3,091
Stocks, end of year ...do...	266,014	281,813	262,730	257,117	257,129	257,129	239,800
Runs to stills ...do...	2,905,106	2,890,436	2,789,404	2,917,661	2,917,661	2,917,661	2,952,534
Value of domestic production at wells:							
Total thousand dollars	7,296,760	8,079,259	7,379,973	7,473,041	7,473,336	7,473,336	7,419,382
Average per barrel	$2.79	$3.09	$3.01	$2.90	$2.90	$2.90	$2.88
Total producing oil wells December 31	551,170	569,273	574,903	583,136	583,141	583,141	591,158
Total oil wells completed during year (successful wells)	31,158	28,164	25,262	27,050	27,055	27,055	22,492
Refined products:							
Imports [9] thousand barrels [6]	183,758	201,334	272,582	297,225	297,239	297,239	294,098
Exports [8] ...do...	128,762	156,944	96,292	90,506	85,049	74,541	70,798
Stocks, end of year ...do...	493,818	537,937	503,314	525,053	526,026	526,954	510,004
Output of gasoline ...do...	1,428,807	1,438,140	1,439,511	1,488,860	1,488,860	1,488,860	1,528,246
Yield of gasoline percent	43.4	43.8	45.2	44.9	44.9	44.9	45.2
Average dealers' net price (excluding tax) of gasoline in 55 United State cities cents per gallon [10]	16.34	16.69	16.22	16.09	16.09	16.09	16.08
Completed refineries, end of year	319	318	313	310	310	310	311
Daily crude-oil capacity thousand barrels [6]	9,124	9,408	9,820	9,901	9,901	9,901	10,008
Natural-gas liquids:							
Production thousand barrels [6]	292,727	297,990	294,749	320,757	320,757	320,757	334,531
Stocks, end of year ...do...	20,559	20,156	22,752	24,887	24,887	24,887	28,931

[1] Data including imports and exports, are for the United States.
[2] Excludes Alaska and Hawaii.
[3] Includes Alaska. Excludes Hawaii.
[4] Includes Alaska and Hawaii.
[5] Preliminary figures.
[6] 42 gallons per barrel.
[7] Bureau of Mines data for crude oil and unfinished oils.
[8] U.S. Department of Commerce, except Alaska (before 1959) and Hawaii (before 1960) which are Bureau of Mines data. Exports include shipments to territories.
[9] U.S. Department of Commerce, except unfinished oils.
[10] Platt's Oil Price Handbook.

DEMAND BY PRODUCTS

As most of the indicated consumption of crude oil in the United States is converted into products at refineries, before sale to ultimate consumers, the analysis of demand trends involves consideration of each major product. The fuel oils (residual, distillate, and kerosine) compete directly with natural gas or coal in heating, cooking and industrial uses. Gasoline and diesel fuel are the major fuels in the transportation field, followed by jet fuel (a blend of low-grade gasoline, kerosine, and distillate) used in military jet planes, and straight kerosine, which is used as fuel by commercial jet planes. The other products serve a wide variety of uses in competition with other products as fuel and in special uses outside the fuels field.

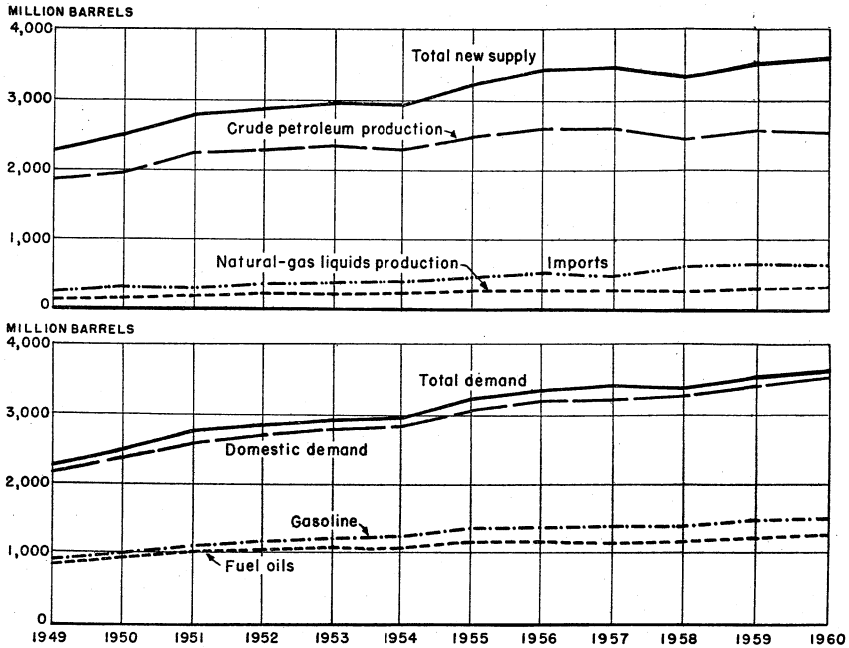

FIGURE 1.—Supply and demand of all oils in the United States, 1949–60.

Gasoline.—The total demand for gasoline increased 1.9 percent in 1960 to 1,530.9 million barrels and represented 42.3 percent of the total demand for all oils. Exports declined 19.6 percent for the year, and domestic demand increased 2.2 percent. A breakdown of domestic demand by uses indicates that civilian highway use accounted for 87.0 percent, aviation gasoline, 3.9 percent, leaving a remainder of 9.1 percent for nonhighway vehicles, military vehicles, stationary vehicles, nonfuel use, and losses. The total demand for gasoline includes aviation gasoline and naphthas.

Distillate Fuel Oil.—The colder than normal weather during the first quarter of 1960 helped to increase the domestic demand for distillate fuel oil by 3.9 percent for the year. Total demand increased only 3.4 percent for the year as exports declined 22.9 percent.

Residual Fuel Oil.—The total demand for residual oil declined 0.9 percent in 1960. Exports were down 10.9 percent for the year, and domestic demand declined 0.6 percent. While total imports of residual increased 5.2 percent in 1960, the part of imports that are controlled by the Oil Imports Administration (residual used as fuel) declined 9.1 percent. Residual imported for bunkering vessels engaged in foreign trade increased 60.5 percent in 1960, and imports by the military for offshore use doubled.

Residual fuel supplied from domestic sources declined from 355.3 million barrels in 1959 to 336.1 million barrels in 1960. Imports supplied 41.8 percent of the domestic demand compared with 39.5 percent in 1959.

TABLE 2.—Supply and demand of all oils in the United States, 1958 total and 1959–60, by months

(Thousand barrels)

	1959 [1]												1958 total
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
New supply:														
Domestic production:														
Crude petroleum	223,926	201,435	222,839	217,685	223,806	212,489	210,311	209,733	205,700	214,248	209,449	222,969	2,574,590	2,448,987
Natural-gas liquids	26,690	25,063	27,311	26,158	26,624	25,950	26,185	26,545	26,020	27,449	27,636	29,126	320,757	294,749
Benzol, etc	37	50	47	30	32	16	25	15	21	17	17	17	324	416
Total production	250,653	226,548	250,197	243,873	250,462	238,455	236,521	236,293	231,741	241,714	237,102	252,112	2,895,671	2,744,152
Imports: [2]														
Crude petroleum	28,664	29,467	28,113	22,270	29,089	36,147	27,510	29,943	29,486	30,355	29,421	31,879	352,344	348,007
Refined products	36,638	36,860	40,741	20,166	17,317	20,942	17,257	16,597	20,726	16,651	24,719	28,625	297,239	272,582
Total new supply	315,955	292,875	319,051	286,309	296,868	295,544	281,288	282,833	281,953	288,720	291,242	312,616	3,545,254	3,364,741
Increase (+) or decrease (−) in stocks	−35,148	−2,628	+7,295	+6,766	+33,433	+17,313	+2,610	+13,291	+185	+13,259	−9,386	−28,486	+18,504	−51,110
Demand:														
Total demand	351,103	295,503	311,756	279,543	263,435	278,231	278,678	269,542	281,768	275,461	300,628	341,102	3,526,750	3,415,851
Exports: [3]														
Crude petroleum	352	97	178	230	267	192	174	237	151	258	132	258	2,526	4,346
Refined products	8,138	6,252	7,480	7,888	7,133	7,590	7,210	6,870	6,628	7,285	5,311	7,264	85,049	96,292
Domestic demand:														
Gasoline	114,993	100,167	119,038	125,017	127,037	133,856	137,260	132,789	130,360	120,881	116,262	123,561	1,481,221	1,435,897
Kerosine	17,978	13,102	10,682	5,972	4,006	4,540	6,051	4,357	7,861	8,052	11,709	15,536	109,846	113,279
Distillate fuel oil	95,307	74,196	67,246	47,662	37,483	36,322	34,133	31,438	42,672	46,084	65,882	80,967	659,392	653,426
Residual fuel oil	63,028	57,558	59,266	45,212	38,208	40,505	36,918	35,152	36,939	37,750	49,416	58,164	558,116	531,067
Jet fuel	7,983	7,196	7,552	8,576	7,465	7,898	8,975	9,232	10,989	9,339	8,761	10,054	104,020	94,177
Lubricants	3,502	2,750	3,795	3,584	3,827	3,907	3,674	3,561	3,733	3,810	3,304	3,327	42,774	39,472
Miscellaneous	39,822	34,185	36,519	35,402	38,009	43,421	44,283	45,906	42,435	42,002	39,851	41,971	483,806	447,895
Total domestic demand	342,613	289,154	304,098	271,425	256,035	270,449	271,294	262,435	274,989	267,918	295,185	333,580	3,439,175	3,315,213
Stocks:														
Crude petroleum	258,108	260,040	254,940	257,564	264,525	272,505	264,994	253,091	250,996	257,487	255,953	257,129	257,129	[4] 262,742
Natural-gas liquids	18,008	17,651	19,524	22,589	27,210	29,976	31,296	31,820	32,759	31,942	29,135	24,887	24,887	22,752
Refined products	478,274	474,071	484,593	485,670	507,521	514,088	522,889	547,559	548,900	556,485	551,440	526,026	526,026	[4] 504,044
Total stocks	754,390	751,762	759,057	765,823	799,256	816,569	819,179	832,470	832,655	845,914	836,528	808,042	808,042	[4] 789,538

	1959 [5]												1958 total
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
New supply:														
Domestic production:														
Crude petroleum	223,926	201,435	222,839	217,685	223,806	212,489	210,311	209,733	205,700	214,248	209,449	222,969	2,574,590	
Natural-gas liquids	26,690	25,063	27,311	26,158	26,624	25,950	26,185	26,545	26,020	27,449	27,636	29,126	320,757	
Benzol, etc	37	50	47	30	32	16	25	15	21	17	17	17	324	
Total production	250,653	226,548	250,197	243,873	250,462	238,455	236,521	236,293	231,741	241,714	237,102	252,112	2,895,671	
Imports: [2]														
Crude petroleum	28,664	29,467	28,113	22,270	29,089	36,147	27,510	29,943	29,486	30,355	29,421	31,879	352,344	
Refined products	36,638	36,860	40,741	20,166	17,317	20,942	17,257	16,597	20,726	16,651	24,719	28,625	297,239	
Total new supply	315,955	292,875	319,051	286,309	296,868	295,544	281,288	282,833	281,953	288,720	291,242	312,616	3,545,254	
Increase (+) or decrease (−) in stocks	−35,027	−2,758	+7,317	+6,928	+33,303	+17,171	+2,608	+13,361	+169	+13,398	−9,409	−28,542	+18,519	
Demand:														
Total demand	350,982	295,633	311,734	279,381	263,565	278,373	378,680	269,472	281,784	275,322	300,651	341,158	3,526,735	
Exports: [3]														
Crude petroleum	352	97	178	230	267	192	174	237	151	258	132	258	2,526	
Refined products	7,344	5,488	6,782	6,827	6,275	6,735	6,524	5,721	5,818	6,341	4,277	6,409	74,541	
Domestic demand:														
Gasoline	115,175	100,523	119,255	125,375	127,408	134,306	137,609	133,239	130,648	121,221	116,588	123,930	1,485,277	
Kerosine	17,989	13,109	10,689	5,976	4,006	4,541	6,063	4,366	7,868	8,052	11,711	15,549	109,919	
Distillate fuel oil	95,314	74,248	67,256	47,697	37,532	36,376	34,214	31,514	42,697	46,143	66,001	80,991	659,983	
Residual fuel oil	63,485	58,029	59,674	45,698	38,722	40,976	37,140	35,663	37,409	38,107	49,943	58,618	563,464	
Jet fuel	7,983	7,196	7,564	8,578	7,492	7,903	8,975	9,254	11,001	9,373	8,814	10,095	104,228	
Lubricants	3,508	2,758	3,801	3,587	3,841	3,920	3,682	3,571	3,744	3,819	3,315	3,332	42,878	
Miscellaneous	39,832	34,185	36,534	35,413	38,022	43,425	44,299	45,907	42,448	42,008	39,870	41,976	483,919	
Total domestic demand	343,286	290,048	304,773	272,324	257,023	271,447	271,982	263,514	275,815	268,723	296,242	334,491	3,449,668	
Stocks:														
Crude petroleum	258,108	260,040	254,940	257,564	264,525	272,505	264,994	253,091	250,996	257,487	255,953	257,129	257,129	[6] 262,742
Natural-gas liquids	18,008	17,651	19,524	22,589	27,210	29,976	31,296	31,820	32,759	31,942	29,135	24,887	24,887	22,752
Refined products	479,308	474,975	485,519	486,758	508,479	514,904	523,703	548,443	549,768	557,492	552,424	526,954	526,954	[6] 504,957
Total stocks	755,424	752,666	759,983	766,911	800,214	817,385	819,993	833,354	833,523	846,921	837,512	808,970	808,970	[6] 790,451

See footnotes at end of table.

TABLE 2.—Supply and demand of all oils in the United States, 1958 total and 1959–60, by months—Continued

(Thousand barrels)

	1960 [5 7]													1959 total
	January	February	March	April	May	June	July	August	September	October	November	December	Total	
New supply:														
Domestic production:														
Crude petroleum	224,140	209,986	220,977	211,132	212,296	208,161	212,645	215,145	209,119	215,687	213,992	221,653	2,574,933	2,574,590
Natural-gas liquids	29,242	27,559	29,956	28,118	27,739	26,659	27,866	28,605	28,076	29,715	29,501	31,495	344,531	320,757
Benzol, etc	16	17	23	48	60	12	18	16	16	17	18	14	275	324
Total production	253,398	237,562	250,956	239,298	240,095	234,832	240,529	243,766	237,211	245,419	243,511	253,162	2,919,739	2,895,691
Imports: [2]														
Crude petroleum	28,610	29,730	29,292	33,877	30,571	32,730	31,191	32,768	32,691	31,458	29,980	28,677	371,575	352,344
Refined products	30,713	29,377	29,966	24,614	20,711	23,483	19,551	19,493	20,634	20,989	26,664	27,903	294,098	297,239
Total new supply	312,721	296,669	310,214	297,789	291,377	291,045	291,271	296,027	290,536	297,866	300,155	309,742	3,585,412	3,545,254
Increase (+) or decrease (−) in stocks	−18,105	−10,591	−34,532	+14,611	+16,307	+2,854	+14,219	+8,543	+14,347	+14,810	−4,678	−48,020	−30,235	+18,519
Demand:														
Total demand	330,826	307,260	344,746	283,178	275,070	288,191	277,052	287,484	276,189	283,056	304,833	357,762	3,615,647	3,526,735
Exports: [3]														
Crude petroleum	264	299	260	270	127	436	248	89	234	352		512	3,091	2,526
Refined products	5,734	5,505	6,302	6,477	6,421	7,155	5,742	5,938	5,393	5,641	5,164	5,326	70,798	74,541
Domestic demand:														
Gasoline	111,311	108,871	120,497	129,094	129,952	138,909	135,838	138,371	128,530	126,242	124,855	124,937	1,517,407	1,485,277
Kerosine	14,753	13,915	15,958	7,668	6,176	6,665	8,067	8,433	8,864	10,475	12,776	18,769	132,519	109,919
Distillate fuel oil	86,200	73,050	87,137	45,385	40,450	39,755	34,919	37,137	39,683	45,160	61,556	95,544	685,976	659,983
Residual fuel oil	61,581	55,804	60,701	45,840	40,246	39,332	36,834	36,240	37,343	40,849	48,509	57,051	560,330	563,464
Jet fuel	8,973	8,584	8,903	7,887	8,752	9,255	8,732	8,254	8,723	8,269	8,472	8,265	103,069	104,228
Lubricants	3,284	3,352	3,646	3,604	3,898	3,699	3,791	3,692	3,483	3,479	3,474	3,265	42,667	42,878
Miscellaneous	38,726	37,880	41,342	36,953	39,048	42,589	42,881	49,330	43,936	42,589	40,027	44,093	499,790	483,919
Total domestic demand	324,828	301,456	338,184	276,431	268,522	280,600	271,062	281,457	270,562	277,063	299,669	351,924	3,541,758	3,449,668
Stocks:														
Crude petroleum	252,206	257,028	260,923	266,178	261,312	257,301	242,745	234,091	231,966	232,990	239,528	239,800	239,800	257,129
Natural-gas liquids	22,406	20,793	18,916	22,215	26,400	29,380	32,467	33,224	35,639	36,122	33,993	28,931	28,931	24,887
Refined products	516,253	502,453	465,903	471,960	488,948	492,833	518,521	534,961	549,018	562,321	553,234	510,004	510,004	526,954
Total stocks	790,865	780,274	745,742	760,353	776,660	779,514	793,733	802,276	816,623	831,433	826,755	778,735	778,735	808,970

[1] Includes Alaska.

[2] Bureau of Mines data for crude oil and unfinished oils, U.S. Department of Commerce data for all other imports.

[3] U.S. Department of Commerce except for shipments to Hawaii in 1959, which are Bureau of Mines data.

[4] Includes stocks located at bulk terminals in Alaska: Crude, 12,000 barrels; gasoline, 244,000 barrels; kerosine, 9,000 barrels; distillate fuel oil, 407,000 barrels; residual fuel oil, 52,000 barrels; jet fuel oil, 16,000 barrels; and lubricants, 2,000 barrels.

[5] Includes Alaska and Hawaii. See tables 4 and 5 for 1959 details.

[6] Includes stocks located at bulk terminals in Alaska for crude and products (see footnote 4), and stocks located at bulk terminals in Hawaii: gasoline, 411,000 barrels; kerosine, 26,000 barrels; distillate fuel oil, 104,000 barrels; residual fuel oil, 363,000 barrels; and jet fuel, 9,000 barrels.

[7] Preliminary figures.

Kerosine.—The total demand for kerosine in 1960 was 133.2 million barrels. This includes 33.2 million barrels of fuel used in commercial jet and turbojet aircraft. In prior years some of the straight kerosine used by commercial jets was reported to the Bureau of Mines under the jet fuel classification so a comparison of demand with previous years is difficult.

Other Products.—Included with all other products are crude-oil exports and losses and refinery shortage and overage. The total demand for this group was 3.1 percent higher in 1960. With the exception of jet fuel and road oil, demand for all products in this group increased over the preceding year. Exports for these products were 21.5 percent higher than a year ago, and domestic demand increased 2.3 percent. The precentage of change (increase or decrease) for 1960 in domestic demand for the individual products in this group is as follows: Coke, +53.2 percent; miscellaneous oils, +8.8 percent; liquefied gases, +6.2 percent; asphalt, +2.2 percent; still gas, +2.0 percent; road oil, −6.0 percent; wax, −2.6 percent; jet fuel, −1.1 percent; and lubricating oils, −0.5 percent. The net crude oil and refinery loss for the year showed an average of 50.0 million barrels, 81.9 percent higher than in 1959. The high increase in the demand for petroleum coke is due to better reporting of nonmarketable catalyst coke, which is used at the refineries.

TABLE 3.—Demand for all oils [1] in the United States

(Million barrels)

Year	Domestic demand	Exports	Total demand	Year	Domestic demand	Exports	Total demand
1951	2,569.8	154.1	2,723.9	1957	3,218.6	207.2	3,425.8
1952	2,664.4	158.2	2,822.6	1958	3,315.2	100.6	3,415.8
1953	2,775.3	146.6	2,921.9	1959 [2]	3,433.9	92.9	3,526.8
1954	2,832.4	129.7	2,962.1	1959 [3]	3,439.2	87.6	3,526.8
1955	3,087.8	134.2	3,220.0	1959 [4]	3,449.6	77.1	3,526.7
1956	3,213.2	157.4	3,370.6	1960 [4 5]	3,541.7	73.9	3,615.6

[1] See text footnote 4 at beginning of this chapter.
[2] Excluding Alaska and Hawaii.
[3] Including Alaska.
[4] Including Alaska and Hawaii.
[5] Preliminary figures.

Shipments to U.S. Territories and Possessions.—Domestic demand, as defined in this chapter, refers to demand in all States of the United States. Alaskan demand for petroleum is included with these States, beginning with 1959, and Hawaiian demand is included with the 1960 data. Shipments from the United States to Territories and possessions are included with exports. Any foreign receipts into these Territories and possessions are not included in the total imports shown.

Shipments from Territories and possessions to foreign countries are excluded from total exports. Shipments to the United States are included in imports.

Separate supply and demand balances for the year 1959 are shown on table 4 for Alaska, and table 5 for Hawaii.

TABLE 4.—Salient statistics for crude petroleum and petroleum products in Alaska, by months, 1959

(Thousand barrels)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Crude petroleum:													
Production	26	15	3	------	4	16	21	18	17	22	21	24	187
Stocks	6	6	1	------	4	9	6	12	8	8	8	12	12
Petroleum products:													
Receipts from West Coast:													
Gasoline	125	96	184	305	97	210	256	249	181	133	97	156	2,089
Kerosine	4	------	3	2	------	1	1	5	3	------	7	2	28
Distillate fuel oil	193	210	237	326	221	293	225	278	297	138	179	260	2,857
Residual fuel oil	16	42	49	3	87	5	87	73	42	56	91	59	610
Jet fuel	------	7	1	7	------	7	3	15	4	7	16	4	71
Lubricants	5	1	3	4	5	5	6	4	4	2	3	2	44
Asphalt	------	------	------	1	26	4	18	------	------	------	------	8	57
Total	343	356	477	648	436	525	596	624	531	336	393	491	5,756
Imports from foreign countries: Gasoline	1	2	2	1	1	------	1	1	2	------	2	1	14
Exports to foreign countries:													
Gasoline	4	9	5	6	6	11	8	14	11	5	8	4	91
Distillate fuel oil	42	44	26	13	12	16	6	6	13	1	18	11	208
Total	46	53	31	19	18	27	14	20	24	6	26	15	299
Bulk terminal stocks in Alaska: [1]													
Gasoline	263	269	324	407	342	352	347	336	301	340	319	333	333
Kerosine	11	11	14	16	14	15	11	12	12	9	16	17	17
Distillate fuel oil	368	365	494	539	513	536	479	432	484	435	413	481	481
Residual fuel oil	54	54	83	78	94	89	79	91	86	92	93	117	117
Jet fuel	16	16	16	14	12	12	15	30	18	15	18	13	13
Lubricants	2	1	2	2	3	3	3	3	3	3	3	3	3
Asphalt	------	------	------	------	21	19	24	19	3	1	1	9	9
Total	714	716	933	1,056	999	1,026	958	923	907	895	863	973	973
Domestic demand, Alaska:													
Gasoline	103	83	126	217	157	189	254	247	207	89	112	139	1,923
Kerosine	2	------	------	------	2	------	5	4	3	3	------	1	20
Distillate fuel oil	190	169	82	268	235	254	276	319	232	186	183	181	2,575
Residual fuel oil	14	42	20	8	71	10	97	61	47	50	90	35	545
Jet fuel	------	7	1	9	2	7	------	------	16	10	13	9	74
Lubricants	5	2	2	4	4	5	6	4	4	2	3	2	43
Asphalt	------	------	------	1	5	6	13	5	16	2	------	------	48
Total	314	303	231	507	476	471	651	640	525	342	401	367	5,228

[1] Alaska stocks on Dec. 31, 1958, as follows: Crude oil, 12,000 barrels; gasoline, 244,000 barrels; kerosine, 9,000 barrels; distillate fuel oil, 407,000 barrels; residual fuel oil, 52,000 barrels; jet fuel, 16,000 barrels; and lubricants, 2,000 barrels.

TABLE 5.—Salient statistics for petroleum products, in Hawaii, by months, 1959

(Thousand barrels)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Receipts from West Coast:													
Gasoline	370	238	229	421	350	400	314	485	256	434	320	327	4,144
Kerosine	19	------	12	7	------	8	7	7	8	2	7	9	86
Distillate fuel oil	28	35	7	52	29	61	65	78	38	75	136	20	624
Residual fuel oil	361	483	415	567	425	366	274	546	470	370	497	451	5,225
Jet fuel	------	------	13	1	27	5	2	22	14	48	46	38	216
Lubricants	6	8	6	3	14	13	8	10	11	9	11	5	104
Wax	------	------	1	1	1	------	------	------	------	------	------	------	3
Asphalt	10	------	14	6	11	2	15	------	12	5	19	5	99
Other products	------	------	1	4	1	1	1	1	1	1	------	------	11
Total	794	764	698	1,062	858	856	686	1,149	810	944	1,036	855	10,512
Exports to foreign countries:													
Gasoline	------	------	------	------	------	1	------	------	------	------	------	------	1
Distillate fuel oil	------	------	------	1	------	------	------	------	------	------	2	------	3
Total	------	------	------	1	------	1	------	------	------	------	2	------	4
Bulk terminal stocks in Hawaii: [1]													
Gasoline	599	481	493	556	535	484	449	484	452	546	540	498	498
Kerosine	34	27	32	35	35	42	37	35	36	38	43	39	39
Distillate fuel oil	125	108	105	121	101	108	92	94	107	123	138	134	134
Residual fuel oil	267	279	286	367	278	173	225	260	260	273	243	240	240
Jet fuel	9	9	10	9	9	9	11	11	13	27	20	17	17
Total	1,034	904	926	1,088	958	816	814	884	868	1,007	984	928	928
Domestic demand, Hawaii:													
Gasoline	182	356	217	358	371	450	349	450	288	340	326	369	4,056
Kerosine	11	7	7	4	------	1	12	9	7	------	2	13	73
Distillate fuel oil	7	52	10	35	49	54	81	76	25	59	119	24	591
Residual fuel oil	457	471	408	486	514	471	222	511	470	357	527	454	5,348
Jet fuel	------	------	12	2	27	5	------	22	12	34	53	41	208
Lubricants	6	8	6	3	14	13	8	10	11	9	11	5	104
Wax	------	------	1	1	1	------	------	------	------	------	------	------	3
Asphalt	10	------	14	6	11	2	15	------	12	5	19	5	99
Other products	------	------	1	4	1	1	1	1	1	1	------	------	11
Total	673	894	676	899	988	997	688	1,079	826	805	1,057	911	10,493

[1] Stocks on Dec. 31, 1958 as follows: Gasoline, 411,000 barrels; kerosine, 26,000 barrels; distillate fuel oil, 104,000 barrels; residual fuel oil, 363,000 barrels; and jet fuel, 9,000 barrels.

SCOPE OF REPORT

This report deals primarily with statistics for production, refining, distribution, and indicated consumption of crude petroleum and refined products in the United States. The object of limiting data to the United States is to permit a breakdown and balancing of supply and demand of operations by States and districts. The composition of the districts used by the Bureau of Mines is explained in the next section.

The increasing volume of natural-gas liquids recovered from natural gas has made it necessary to present data on these liquids with the crude oil data, as they are either blended with refinery products or are identical with materials recovered from refinery gases. These natural-gas liquids are recovered at special plants away from the oil refineries.

Most of the data were compiled by the Bureau of Mines from detailed reports, submitted on a voluntary basis by the various companies. These data are published monthly for release about 8 weeks

after the end of the month concerned. Complete coverage, with only minor estimates, is procured for production, stocks, and refinery operations. The Bureau of Mines used the import data as reported by the refineries for crude oil and unfinished oils. Other product imports and all export data were taken from records of the U.S. Department of Commerce.

The impossibility of contracting many small producers to obtain current monthly data for crude-oil production makes it necessary to use pipeline company reports. These companies report by States of origin, stocks on leases, oil taken from the leases, pipeline and tank farm stocks, and crude deliveries. The data are cross-checked against reports from refineries showing crude receipts by States of origin and method of transportation. These reports include information covering final receipts by water, tank cars, and trucks and cover stocks of crude oil, held at refineries, by States of origin. The data are checked further against available current and annual production figures collected by State agencies and supplemented by estimates of unreported lease stocks. The Bureau of Mines crude production figure includes field condensate.

Individual refineries reported monthly receipts, input, stocks at the beginning and end of the month, refinery production, and deliveries. Data on both product stocks at refineries and pipeline and bulk terminal stocks are collected.

Annual canvasses provide supplemental information on the value of crude petroleum at wells, the number of producing oil wells, sales of fuel oils, asphalt and road oils by uses, and refinery capacity. The table showing world production of crude oil by countries is based on monthly reports, which also included data on crude movements and refinery operations. Data on crude reserves, wells drilled, and current prices were taken from the sources indicated in the footnotes.

DISTRICTS

The Bureau of Mines reported production of crude petroleum and natural-gas liquids and the number of wells drilled by States. Louisiana, New Mexico, and Texas were also reported by districts.

Louisiana is divided into a Northern Louisiana district and a Louisiana Gulf Coast district. The Gulf Coast district includes Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Tangipahoa, St. Helena, and Washington Parishes and all parishes in the State south of these. All parishes not included in the Gulf Coast district are in the Northern Louisiana district.

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.

The Bureau of Mines producing districts in Texas correspond, with one exception, to groupings of the Texas Railroad Commission districts.

Bureau of Mines districts:	*Railroad Commission district*
Gulf Coast	Nos. 2 and 3
West Texas	Nos. 7C and 8
East Proper	Part of No. 6 (East Texas field in Cherokee, Smith, Upshur, Rush and Gregg Counties)
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)

The Bureau of Mines groups refinery operations 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*
1	*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.
1	*Appalachian No. 1*—West Virginia and those parts of Pennsylvania and New York not included in the East Coast district.
2	*Appalachian No. 2*—The following counties of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.
2	*Indiana-Illinois-Kentucky*—Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of Ohio not included in the Appalachian district.
2	*Oklahoma-Kansas-Missouri*—Oklahoma, Kansas, Missouri, Nebraska, and Iowa.
2	*Minnesota-Wisconsin-North Dakota-South Dakota*—Minnesota, Wisconsin, North Dakota, and South Dakota.
3	*Texas Inland*—Texas, except Texas Gulf Coast district.
3	*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.
3	*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, Alabama.
3	*North Louisiana-Arkansas*—Arkansas and those parts of Louisiana, Mississippi and Alabama not included in the Louisiana Gulf Coast district.
3	*New Mexico*—New Mexico.
4	*Rocky Mountain*—Montana, Idaho, Wyoming, Utah, and Colorado.
5	*West Coast*—Washington, Oregon, California, Nevada, Alaska, Arizona, and Hawaii.

WORLD OIL SUPPLY

Crude production for the world in 1960 was 7,684 million barrels, an increase of 7.7 percent over 1959. The United States' share of the total production declined from 36.1 percent in 1959 to 33.5 percent in 1960.

The world demand for petroleum increased 8.1 percent in 1960 (from 7,194 million barrels in 1959 to 7,775 million in 1960).

RESERVES

The American Petroleum Institute Committee on Petroleum Reserves estimated proved reserves of crude oil in the United States to be 31.6 billion barrels on Dec. 31, 1960, a decrease of 0.1 billion for the year.

The estimates of crude-oil reserves include only oil recoverable under existing economic and operating conditions.

TABLE 6.—Estimates of proved crude oil reserves in the United States on December 31, 1953–60, by States [1]

(Million barrels)

State	1953	1954	1955	1956	1957	1958	1959	1960
Eastern States:								
Illinois	625	658	691	700	655	608	594	556
Indiana	62	67	62	68	67	71	74	66
Kentucky	82	85	107	149	138	126	136	129
Michigan	61	60	59	55	49	45	55	78
New York	49	46	43	40	37	36	34	32
Ohio	32	37	56	64	68	71	74	75
Pennsylvania	111	102	93	135	126	120	114	108
West Virginia	36	37	47	51	53	52	51	51
Total	1,058	1,092	1,158	1,262	1,193	1,129	1,132	1,095
Central and Southern States:								
Arkansas	358	351	330	318	305	318	313	302
Kansas	913	979	998	992	947	922	917	884
Louisiana [2]	2,760	2,962	3,255	3,675	3,858	4,044	4,660	4,785
Mississippi	350	412	388	368	360	379	389	407
Nebraska	26	38	57	63	63	69	81	86
New Mexico	815	806	820	836	832	894	1,026	1,084
North Dakota	128	134	185	196	258	314	382	431
Oklahoma	1,752	1,955	2,016	2,010	1,941	1,898	1,865	1,791
Texas [2]	14,999	14,982	14,934	14,783	14,555	14,322	14,860	14,758
Total	22,101	22,619	22,983	23,241	23,119	23,160	24,493	24,528
Mountain States:								
Colorado	319	329	334	364	310	392	381	364
Montana	209	272	299	331	320	338	309	267
Utah	38	36	37	61	140	199	195	208
Wyoming	1,279	1,304	1,374	1,363	1,420	1,409	1,403	1,427
Total	1,845	1,941	2,044	2,119	2,190	2,338	2,288	2,266
Pacific Coast States: California [2]	3,920	3,889	3,801	3,771	3,760	3,866	3,763	3,659
Other States [3]	21	20	26	42	38	43	43	65
Total United States	28,945	29,561	30,012	30,435	30,300	30,536	31,719	31,613

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

[2] Includes offshore reserves.

[3] Includes Alabama, Arizona, Florida, Missouri Nevada, South Dakota, Tennessee, Virginia, Washington, and Alaska for 1959–60, only.

CRUDE PETROLEUM

SUPPLY AND DEMAND

The new supply of crude petroleum is derived mainly from domestic production, but the supply is augmented by imports. Crude imports represented 12.6 percent of the crude supply in 1960, compared with 12.0 percent in 1959. Under the mandatory import control program, which became effective March 1959, imports of crude oil and unfinished oils for further processing are limited to a percentage of the estimated total demand for all products in all States east of the Rocky Mountains. In States west of the Rocky Mountains, including Alaska and Hawaii, the quota is based on the difference between the estimated available domestic supply and the forecast of total demand. Overland receipts (imports from Canada and Mexico) are exempted from provisions of the program. All refineries of record are granted an allocation based on their refinery throughout, with certain special provisions for refineries who imported crude oil during 1957, the base year for the program.

The major part of the indicated demand for crude petroleum is converted into products before final consumption (99.6 percent in 1960) and the remainder represents exports, fuel and losses.

TABLE 7.—Supply and demand [1] for crude petroleum in the United States

(Thousand barrels)

	1956	1957	1958	1959 [2]	1959 [3]	1960 [4 5]
Production	2,617,283	2,616,901	2,448,987	2,574,403	2,574,590	2,574,933
Imports [6]	341,833	373,255	348,007	352,531	352,344	371,575
Total new supply	2,959,116	2,990,156	2,796,994	2,926,934	2,926,934	2,946,508
Increase (+) or decrease (−) in stocks, end of year	+404	+15,799	−19,083	−5,613	−5,613	−17,329
Demand:						
Domestic crude	2,616,826	2,605,781	2,466,357	2,578,016	2,578,203	2,592,289
Foreign crude	341,886	368,576	349,720	354,531	354,344	371,548
Total demand	2,958,712	2,974,357	2,816,077	2,932,547	2,932,547	2,963,837
Runs to stills:						
Domestic	2,563,655	2,529,672	2,444,229	2,565,504	2,565,504	2,581,568
Foreign	341,451	360,764	345,175	352,157	352,157	370,966
Exports [7]	28,624	50,243	4,346	2,526	2,526	3,091
Transfers to fuel oil:						
Distillate	1,375	1,305	950	970	970	1,001
Residual	6,439	13,884	10,965	7,386	7,386	3,948
Other fuel losses	17,168	18,489	10,412	4,004	4,004	3,263
Total demand	2,958,712	2,974,357	2,816,077	2,932,547	2,932,547	2,963,837

[1] For definition, see footnote 4 at the beginning of this chapter.
[2] Excludes Alaska and Hawaii.
[3] Includes Alaska. There was no crude oil production in Hawaii.
[4] Preliminary figures.
[5] Includes Alaska and Hawaii.
[6] Bureau of Mines data.
[7] U.S. Department of Commerce.

TABLE 8.—Supply of and demand for crude petroleum in the United States, by months

(Thousand barrels)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959: [1]													
Supply:													
Production	223,926	201,435	222,839	217,685	223,806	212,489	210,311	209,733	205,700	214,248	209,449	222,969	2,574,590
Imports [2]	28,664	29,467	28,113	22,270	29,089	36,147	27,510	29,943	29,486	30,355	29,421	31,879	352,344
Total new supply	252,590	230,902	250,952	239,955	252,895	248,636	237,821	239,676	235,186	244,603	238,870	254,848	2,926,934
Change in stocks, end of period:													
Domestic	−2,390	−632	−3,807	4,442	5,016	3,366	−3,050	−11,962	−2,603	6,484	448	1,075	−3,613
Foreign	−2,244	2,564	−1,293	−1,818	1,945	4,614	−4,461	59	508	7	−1,982	101	−2,000
Demand:													
Domestic	226,316	202,067	226,646	213,243	218,790	209,123	213,361	221,695	208,303	207,764	209,001	221,894	2,578,203
Foreign	30,908	26,903	29,406	24,088	27,144	31,533	31,971	29,884	28,978	30,348	31,403	31,778	354,344
Runs to stills:													
Domestic	224,820	201,114	225,553	212,080	217,657	208,102	212,355	220,664	207,369	206,740	208,118	220,932	2,565,504
Foreign	30,304	26,448	28,869	23,902	27,132	31,505	31,961	29,844	28,957	30,326	31,399	31,510	352,157
Exports [3]	352	97	178	230	267	192	174	237	151	258	132	258	2,526
Transfers:													
Distillate	89	83	89	82	81	79	75	74	72	77	79	90	970
Residual	1,053	898	1,038	731	485	480	457	448	442	414	378	562	7,386
Losses	606	330	325	306	312	298	310	312	290	297	298	320	4,004
1960: [4] [5]													
Supply:													
Production	224,140	209,986	220,977	211,132	212,296	208,161	212,645	215,145	209,119	215,687	213,992	221,653	2,574,933
Imports [2]	28,610	29,730	29,292	33,877	30,571	32,730	31,191	32,768	32,691	31,458	29,980	28,677	371,575
Total new supply	252,750	239,716	250,269	245,009	242,867	240,891	243,836	247,913	241,810	247,145	243,972	250,330	2,946,508
Change in stocks, end of period:													
Domestic	−4,802	4,029	5,220	157	−2,498	−4,250	−12,342	−8,644	−2,781	2,173	4,821	1,561	−17,356
Foreign	−121	793	−1,325	5,098	−2,368	239	−2,214	−10	656	−1,149	1,717	−1,289	27
Demand:													
Domestic	228,942	205,957	215,757	210,975	214,794	212,411	224,987	223,789	211,900	213,514	209,171	220,092	2,592,289
Foreign	28,731	28,937	30,617	28,779	32,939	32,491	33,405	32,778	32,035	32,607	28,263	29,966	371,548
Runs to stills:													
Domestic	227,966	204,977	214,869	210,071	214,029	211,395	224,140	223,016	211,042	212,596	208,466	219,001	2,581,568
Foreign	28,693	28,903	30,554	28,738	32,818	32,378	33,382	32,732	31,957	32,561	28,323	29,927	370,966
Exports [3]	264	299	260	270	127	436	248	89	234	352	----------	512	3,091
Transfers:													
Distillate	173	81	78	78	72	70	72	79	73	69	74	82	1,001
Residual	296	371	341	333	411	350	263	366	357	268	334	258	3,948
Losses	281	263	272	264	276	273	287	285	272	275	237	278	3,263

[1] Including Alaska. There was no crude oil produced or processed in Hawaii.
[2] Bureau of Mines figures.
[3] U.S. Department of Commerce.
[4] Preliminary figures.
[5] Including Alaska and Hawaii.

TABLE 9.—Petroleum produced in the United States, by States [1]

(Thousand barrels unless otherwise stated)

	1956	1957	1958	1959	1960 [2]	1859–1960 total
Production:						
Alabama	3,069	5,406	5,887	5,524	7,257	36,760
Alaska				187	558	745
Arkansas	29,355	31,047	28,700	26,329	28,953	1,087,041
California	350,754	339,646	313,672	308,946	304,356	12,026,670
Colorado	58,516	54,982	48,736	46,440	47,165	594,663
Florida	479	461	449	424	368	6,529
Illinois	82,346	77,083	80,275	76,727	78,840	2,229,353
Indiana	11,513	12,662	11,864	11,554	11,590	318,159
Kansas	124,204	123,614	119,942	119,543	113,455	[3] 3,311,717
Kentucky	17,628	17,029	17,509	27,272	21,144	[4] 416,974
Louisiana	299,421	329,896	313,891	362,666	394,360	5,508,883
Michigan	10,740	10,169	9,308	10,439	15,665	[5] 441,326
Mississippi	40,824	38,922	39,512	49,620	51,819	685,245
Montana	21,760	27,172	27,957	29,857	30,240	365,529
Nebraska	16,204	19,586	20,373	22,881	24,428	140,055
Nevada	64	44	40	32	25	302
New Mexico	87,893	94,759	98,515	105,692	107,940	[6] 1,516,253
New York	2,748	2,677	1,763	1,970	1,801	[7] 196,017
North Dakota	13,495	13,259	14,259	17,824	21,954	104,716
Ohio	4,785	5,478	6,260	5,978	4,960	666,757
Oklahoma	215,862	214,661	200,699	198,090	192,288	8,225,771
Pennsylvania	8,230	8,179	6,472	6,160	6,258	1,221,629
Texas	1,107,808	1,073,867	940,166	971,978	933,632	23,834,878
Utah	2,466	4,367	24,811	39,959	37,599	[8] 119,895
West Virginia	2,179	2,215	2,186	2,184	2,318	465,661
Wyoming	104,830	109,584	115,572	126,050	135,521	1,920,982
Other States [9]	110	136	[10] 169	264	439	3,410
Total	2,617,283	2,616,901	2,448,987	2,574,590	2,574,933	65,445,920
Value at wells:						
Total (thousand dollars)	7,296,760	8,079,259	7,379,973	7,473,336	7,419,382	127,037,618
Average per barrel	$2.79	$3.09	$3.01	$2.90	$2.88	$1.94

[1] For detailed figures by States, 1859–1935, see Minerals Yearbook, 1937, p. 1008.
[2] Preliminary figures.
[3] Oklahoma included with Kansas in 1905 and 1906.
[4] Includes Tennessee, 1883–1907.
[5] Figures represent 1925–60 production only; earlier years included with "Other States."
[6] Figures represent 1924–60 production only; earlier years included with "Other States."
[7] Early production in New York included with Pennsylvania.
[8] Figures represent 1946–60 production only; earlier years included with "Other States."
[9] Includes Alaska 1912–33; Arizona, 1958–60; Arkansas, 1920; Michigan, 1900–1919; Mississippi, 1933–35; Missouri, 1899–1911; 1913–16, 1919–23, 1932–59; New Mexico, 1913, 1919–23; South Dakota, 1955–59; Tennessee, 1916–60; Utah, 1907–11, 1920, 1924–41; Virginia, 1943–60; Washington, 1958–60.
[10] Does not include 29,000 barrels produced in Alaska.

PRODUCTION

GENERAL

Crude oil production totaled 2,574.9 million barrels in 1960 compared with 2,574.6 million in 1959. On a daily basis, the 1960 production of 7,035,000 barrels was 19,000 barrels daily less than the 1959 daily average. The demand for domestic crude oil in 1960 was higher than the production resulting in a reduction in domestic crude oil stocks of 47,000 barrels daily for the year.

The seven States, which annually produce in excess of 100 million barrels of crude oil (Texas, Louisiana, California, Oklahoma, Wyoming, Kansas, and New Mexico), supplied 84.7 percent of the United States total in 1960 compared with 85.2 percent in 1959.

BY STATES

Additional data on production by States will be found in volume III of the Minerals Yearbook.

TABLE 10.—Production of crude petroleum in the United States in 1959–60, by States and months [1]

(Thousand barrels)

State	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959:													
Alabama	514	308	369	474	495	488	534	427	445	505	457	508	5,524
Arkansas	2,510	2,116	2,276	2,433	2,490	2,439	2,212	1,950	2,005	1,940	1,883	2,075	26,329
California [2]	26,324	23,621	26,273	25,404	26,403	25,619	26,313	26,223	25,344	26,082	25,295	26,045	308,946
Colorado [3]	3,909	3,609	3,967	3,845	3,899	3,753	3,857	3,942	3,814	4,007	3,819	4,019	46,440
Florida	39	29	37	36	36	36	34	36	34	37	34	36	424
Illinois	6,764	5,999	6,393	6,358	6,285	6,263	6,442	6,447	6,268	6,529	6,297	6,682	76,727
Indiana	1,004	839	977	941	1,130	931	1,005	959	908	959	902	999	11,554
Kansas [4]	10,087	9,551	10,530	10,302	9,906	9,842	9,896	9,575	9,779	10,094	9,740	10,241	119,543
Kentucky	2,060	1,868	2,204	2,509	2,711	2,598	2,449	2,275	2,239	2,235	2,048	2,076	27,272
Louisiana [5]	30,034	27,075	29,163	29,163	30,271	29,373	30,698	31,041	30,225	31,753	31,130	32,740	362,666
Michigan [6]	780	714	815	828	810	865	880	892	885	917	981	1,072	10,439
Mississippi	3,758	3,534	3,972	3,944	4,147	4,083	4,296	4,367	4,302	4,472	4,281	4,464	49,620
Montana [7]	2,441	2,304	2,577	2,415	2,399	2,518	2,621	2,543	2,505	2,523	2,423	2,588	29,857
Nebraska	1,770	1,527	1,559	1,822	2,016	2,008	1,969	2,107	2,032	2,080	1,974	2,017	22,881
New Mexico	8,489	7,819	8,980	8,907	8,921	8,830	9,086	8,828	8,780	8,950	8,877	9,225	105,692
New York	187	142	158	159	157	169	167	166	165	167	163	170	1,970
North Dakota [8]	1,463	1,373	1,589	1,418	1,443	1,535	1,536	1,501	1,490	1,135	1,466	1,875	17,824
Ohio	470	469	519	531	489	522	534	499	505	494	451	495	5,978
Oklahoma	17,618	15,732	17,587	17,279	17,114	16,204	15,681	15,400	15,318	16,386	16,538	17,233	198,090
Pennsylvania	479	456	498	515	511	520	518	504	530	538	532	559	6,160
Texas	89,292	79,903	88,122	84,490	88,251	79,746	74,871	75,413	74,270	77,900	76,514	83,206	971,978
Utah [9]	3,327	3,021	3,443	3,227	3,365	3,535	3,509	3,351	3,220	3,306	3,140	3,515	39,959
West Virginia	171	167	182	189	175	189	189	178	189	194	171	190	2,184
Wyoming	10,395	9,233	10,631	10,481	10,361	10,390	10,973	11,059	10,394	10,984	10,271	10,878	126,050
Other States	41	26	18	15	21	33	41	50	54	61	62	61	[10] 483
Total: 1959	223,926	201,435	222,839	217,685	223,806	212,489	210,311	209,733	205,700	214,248	209,449	222,969	2,547,590
1958	213,280	190,947	194,580	189,014	193,205	190,172	203,701	215,030	212,642	215,887	209,252	221,277	2,448,987
Daily average, 1959	7,223	7,194	7,188	7,256	7,220	7,083	6,784	6,766	6,857	6,911	6,982	7,193	6,980
Pennsylvania grade (included above)	952	886	970	990	964	1,011	1,015	984	1,012	1,025	976	1,046	11,831
1960: [11]													
Alabama	491	441	537	583	679	649	658	657	636	665	626	635	7,257
Arkansas	2,184	2,368	2,400	2,372	2,585	2,323	2,443	2,428	2,397	2,539	2,446	2,468	28,953
California [2]	25,695	24,003	25,746	25,040	25,891	25,121	25,861	25,685	24,784	25,821	25,024	25,685	304,356
Colorado [3]	3,965	3,699	3,989	3,831	3,962	3,846	3,981	3,895	3,920	4,056	3,914	4,107	47,165
Florida	35	35	36	30	31	28	31	30	27	28	27	30	368
Illinois	6,875	6,170	6,505	6,458	6,635	6,589	6,616	6,767	6,547	6,716	6,538	6,424	78,840
Indiana	1,009	939	950	957	971	911	960	1,075	942	951	951	974	11,590
Kansas [4]	9,733	8,942	9,255	9,395	9,550	9,086	9,410	9,786	9,451	9,610	9,569	9,668	113,455

Kentucky	1,973	1,725	1,744	1,848	1,879	1,839	1,736	1,873	1,669	1,717	1,596	1,545	21,144
Louisiana [5]	33,622	31,299	33,715	32,504	32,046	31,203	32,524	32,586	31,582	34,154	33,699	35,426	394,360
Michigan [6]	1,027	1,021	1,177	1,171	1,011	1,257	1,300	1,456	1,441	1,614	1,535	1,655	15,665
Mississippi	4,651	4,176	4,189	4,098	4,492	4,206	4,223	4,305	4,198	4,345	4,395	4,541	51,819
Montana [7]	2,556	2,466	2,543	2,443	2,410	2,425	2,604	2,617	2,519	2,599	2,509	2,549	30,240
Nebraska	1,987	1,818	1,924	1,859	2,019	2,050	2,200	2,246	2,070	2,185	2,004	2,066	24,428
New Mexico	9,323	8,840	9,411	8,711	8,934	8,758	9,031	9,294	8,884	9,088	9,019	8,647	107,940
New York	150	145	158	155	159	157	147	151	150	147	147	135	1,801
North Dakota [8]	1,789	1,794	1,508	1,588	1,684	1,824	1,913	2,073	1,833	1,909	1,906	2,133	21,954
Ohio	433	400	425	414	411	420	400	446	417	409	411	374	4,960
Oklahoma	17,340	16,159	16,692	15,923	16,233	15,367	15,652	15,841	15,028	16,013	15,801	16,239	192,288
Pennsylvania	509	494	511	535	544	554	495	563	539	527	521	466	6,258
Texas	84,147	79,488	83,412	77,905	75,936	75,063	75,396	76,087	75,029	75,333	75,797	80,039	933,632
Utah [9]	3,420	3,168	3,385	3,178	3,144	3,160	2,945	2,935	2,890	2,569	3,355	3,450	37,599
West Virginia	167	161	194	199	193	206	185	208	211	204	207	183	2,318
Wyoming	11,023	10,189	10,505	9,892	10,836	11,070	11,864	12,070	11,873	12,356	11,826	12,017	135,521
Other States	36	46	66	43	61	49	70	71	82	132	169	197	[12] 1,022
Total: 1960	224,140	209,986	220,977	211,132	212,296	208,161	212,645	215,145	209,119	215,687	213,992	221,653	2,574,933
1959	223,926	201,435	222,839	217,685	223,806	212,489	210,311	209,733	205,700	214,248	209,449	222,969	2,574,590
Daily average, 1960	7,230	7,241	7,128	7,038	6,848	6,939	6,860	6,940	6,971	6,958	7,133	7,150	7,035
Pennsylvania grade (included above)	945	914	984	1,012	1,011	1,045	950	1,056	1,032	1,014	1,004	906	11,873

[1] Includes field condensate.
[2] Conservation Committee of California Oil Producers.
[3] Colorado Oil and Gas Conservation Commission.
[4] Kansas Geological Survey.
[5] Louisiana Conservation Commission.
[6] Michigan Department of Conservation.
[7] Montana Oil Conservation Board.
[8] North Dakota Geological Survey.
[9] Utah Oil and Gas Conservation Commission.
[10] Includes Alaska (187), Arizona (25), Missouri (75), Nevada (32), South Dakota (151), Tennessee (6), Virginia (6), and Washington (1).
[11] Preliminary figures.
[12] Alaska (558), Arizona (73), Missouri (72), Nevada (25), South Dakota (281), Tennessee (6), Virginia (6), and Washington (1).

TABLE 11.—Percentage of total crude petroleum produced in the United States, by States

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960 [1]
Texas	45.0	44.6	43.2	42.1	42.4	42.3	41.0	38.4	37.8	36.3
Louisiana	10.3	10.7	10.9	10.6	10.9	11.4	12.6	12.8	14.1	15.3
California	15.8	15.7	15.5	15.4	14.3	13.4	13.0	12.8	12.0	11.8
Oklahoma	8.3	8.3	8.6	8.0	8.2	8.2	8.2	8.2	7.7	7.5
Wyoming	3.1	3.0	3.5	4.0	4.0	4.0	4.2	4.7	4.9	5.3
Kansas	5.1	5.0	4.9	5.2	4.9	4.7	4.7	4.9	4.6	4.4
New Mexico	2.3	2.6	3.0	3.2	3.3	3.4	3.6	4.0	4.1	4.2
Illinois	2.7	2.6	2.5	2.9	3.3	3.1	2.9	3.3	3.0	3.1
Mississippi	1.7	1.6	1.5	1.5	1.5	1.6	1.5	1.6	1.9	2.0
Colorado	1.2	1.3	1.5	2.0	2.1	2.2	2.1	2.0	1.8	1.8
Montana	.4	.4	.5	.6	.6	.8	1.0	1.1	1.2	1.2
Arkansas	1.3	1.3	1.3	1.3	1.1	1.1	1.2	1.2	1.0	1.1
Kentucky	.5	.5	.5	.6	.6	.7	.7	.7	1.1	.8
Michigan	.6	.6	.5	.5	.5	.4	.4	.4	.4	.6
Other States	1.7	1.8	2.1	2.1	2.3	2.7	2.9	3.9	4.4	4.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Preliminary figures.

TABLE 12.—Production of crude petroleum in leading fields in the United States, and total production since discovery [1]

(Thousand barrels)

Field	State	1959	1960	Total since discovery [2]
East Texas	Texas	52,992	43,124	3,453,903
Wilmington	California	26,974	27,570	883,953
Sho-Vel-Tum	Oklahoma	25,175	24,227	548,995
Elk Basin	Montana, Wyoming	21,438	20,665	174,517
Coalings, all fields	California	21,517	20,439	842,752
Rangely	Colorado	17,980	17,135	299,972
Ventura	California	18,876	17,121	639,951
Caillou Island	Louisiana	15,062	16,694	159,722
Huntington Beach	California	18,212	16,620	666,737
South Pass, Block 24	Louisiana	16,423	16,528	101,344
Burbank	Oklahoma	14,463	15,676	378,555
Ward-Estes, North	Texas	14,616	15,032	114,562
Kelly-Snyder	do	20,056	14,929	256,436
Midway Sunset	California	13,157	13,982	883,367
Cowden, all fields	Texas	14,086	13,820	330,322
Loudon	Illinois	12,586	12,628	248,043
Cuyama, South	California	12,590	12,2o5	139,309
Wasson—66 and 72	Texas	12,692	11,711	354,630
Timbalier Bay	Louisiana	10,220	11,695	56,567
San Ardo	California	11,010	11,534	102,213
Spraberry Trend	Texas	12,086	11,502	141,803
Golden Trend	Oklahoma	10,627	11,071	205,967
Seeligson (all zones)	Texas	14,918	10,918	195,187
Lake Washington	Louisiana	10,902	10,863	63,202
Bay Marchand, Block 2	do	6,093	9,858	42,156
Buena Vista	California	9,769	9,762	489,964
McElmo Creek	Utah	9,191	9,656	21,733
Goldsmith	Texas	20,164	9,452	298,400
TXL	do	6,759	9,243	157,796
Hawkins	do	9,845	9,173	260,874
Kern Front and Kern River	California	8,384	9,064	454,065
McElroy	Texas	9,810	8,928	186,410
Slaughter	do	9,062	8,553	268,990
Salem	Illinois	6,926	8,482	280,085
Weeks Island	Louisiana	7,476	8,422	99,743
Aneth	Utah	10,200	8,185	28,531
Hastings	Texas	9,290	7,786	311,416
Eunice-Monument	New Mexico	7,896	7,632	276,128
Adena & South Adena	Colorado	6,463	7,567	40,871
Hamilton Dome	Wyoming	6,793	7,482	70,454
Clay City	Illinois	7,269	7,470	219,339
West Delta, Block 30	Louisiana	6,314	7,444	22,476
Ratherford	Utah	7,571	7,334	18,572
Bridgeport (Old)	Illinois	6,264	7,174	284,450
South Mountain	California	7,375	6,682	87,132
Tom O'Conner	Texas	6,460	6,532	252,285

See footnotes at end of table.

TABLE 12.—Production of crude petroleum in leading fields in the United States, and total production since discovery [1]—Continued

(Thousand barrels)

Field	State	1959	1960	Total since discovery [2]
Citronelle	Alabama	4,426	6,464	21,416
Diamond M	Texas	7,627	6,451	97,983
Howard Glasscock	do	6,499	6,312	212,560
Denton	New Mexico	7,141	6,293	76,122
Bradford-Allegheny [3]	Pennsylvania, New York	6,237	6,287	695,244
Beaver Lodge-Tioga	North Dakota	7,048	6,265	52,907
Kermit	Texas	5,271	6,143	71,005
Caddo	Louisiana	6,334	6,118	257,607
Fullerton (& North & South)	Texas	6,493	6,060	142,791
Gladiola	New Mexico	7,046	6,031	26,301
Brea-Olinda	California	5,865	5,950	276,119
Baxterville	Mississippi	5,801	5,901	77,826
Levelland	Texas	6,346	5,879	118,962
Block 31	do	5,809	5,821	60,087
Webster	do	6,859	5,802	251,565
Emma (& Triple N)	do	5,961	5,750	41,155
Coles Levee, North & South	California	5,626	5,673	128,680
Little Creek	Mississippi	5,460	5,669	12,554
Long Beach	California	5,869	5,609	823,536
Caprock and East	New Mexico	6,581	5,525	44,415
Yates	Texas	6,372	5,475	467,768
Delhi	Louisiana	5,433	5,422	110,550
Keystone	Texas	5,963	5,368	169,915
West Bay	Louisiana	4,957	5,282	50,443
Garland & South	Wyoming	5,325	5,256	54,469
New Harmony	Illinois	4,758	5,252	105,174
Lake Barre	Louisiana	4,458	5,231	38,516
White Mesa	Utah	6,390	5,219	14,380
Thompson, all fields	Texas	5,673	5,188	240,828
Oregon Basin and West	Wyoming	5,557	5,187	97,745
Pine Unit Area	Montana	4,852	5,171	26,167
Conroe	Texas	6,017	5,162	387,994
Cogdell (all fields)	do	6,047	5,103	69,786
Agua Dulce-Stratton	do	5,222	5,039	156,862
Headlee	do	3,469	5,003	25,223

[1] Fields under 5 million barrels not shown for current year.
[2] Includes revisions.
[3] Bureau of Mines data.

Source: Oil and Gas Journal.

TABLE 13.—Production of crude petroleum in Arkansas, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Atlanta	438	399	228	148	290
Bradley West	499				
Buckner	444	415	363	332	309
Dorcheat-Macedonia	632	721	303	314	617
El Dorado	923	990	826	646	456
Fouke	1,431	1,468	1,279	855	1,088
Horsehead	403	188			
Magnolia	3,609	4,521	4,058	4,439	5,032
McKamie	1,349	1,337	976	755	950
Midway	2,238	2,299	2,046	2,196	2,211
Schuler	2,353	2,119	1,791	1,849	1,510
Smackover	4,466	4,206	4,114	4,363	4,057
Stephens	1,157	1,745	1,681	1,472	1,182
Village	811	776	721	398	626
Wesson	1,591	2,491	2,239	1,525	1,717
Other fields [2]	7,011	7,372	8,075	7,037	8,908
Total Arkansas	29,355	31,047	28,700	26,329	28,953

[1] Preliminary figures.
[2] Includes oil consumed on leases and net change in stocks held on leases for entire State.

TABLE 14.—Production of crude petroleum in California, by districts and fields

(Thousand barrels)

District and field	1956	1957	1958	1959	1960[1]
San Joaquin Valley:					
Belridge	4,297	4,677	4,782	4,620	5,035
Buena Vista	7,767	7,457	6,901	9,815	9,728
Coalinga	29,280	27,746	26,740	21,225	21,045
Coles Levee	5,313	5,888	5,443	4,824	5,659
Cuyama-Russell Ranch	15,940	16,215	15,084	14,544	14,233
Edison	4,568	4,135	3,808	3,527	3,033
Elk Hill	5,959	5,662	5,361	5,126	4,368
Fresno Group				3,033	106
Fruitvale	3,212	2,994	2,721	2,500	2,426
Gosford, East	443				
Greeley	4,271	3,502	2,981	2,665	2,460
Helm	1,009	981	829	883	1,272
Kern River-Kern Bluff-Kern Front	7,437	7,665	6,888	8,648	9,460
Kettleman North Dome	5,252	4,898	4,786	3,926	3,460
Lost Hills	1,782	1,706	1,324	1,272	1,499
McKittrick	8,984	7,807	7,018	6,512	7,287
Midway-Sunset	15,070	15,206	13,107	13,126	13,959
Mountain View	1,447	1,608	1,523	1,403	1,587
Mount Poso	2,927	3,319	3,392	3,173	2,854
Poso Creek	1,517	1,655	1,342	1,349	1,354
Raisin City	2,137	1,951	1,793	1,668	1,457
Rio Bravo	3,995	4,262	3,629	3,464	3,260
Riverdale	544	540	487	391	328
Round Mountain	1,630	1,590	1,497	1,467	1,408
Tejon Group	3,360	2,331	2,722	5,030	5,105
Ten Section	1,638	1,577	1,506	1,614	1,469
Vallecitos Group				857	562
Wheeler Ridge				1,849	2,186
Other San Joaquin Valley	11,702	10,421	6,587	9,851	11,409
Total San Joaquin Valley	151,481	145,793	132,251	138,362	138,009
Coastal district:					
Aliso Canyon	2,606	2,343	2,027	1,876	1,723
Cat Canyon	6,133	4,481	4,197	4,454	3,361
Del Valle	747	1,140	961	423	818
Elwood	1,205	1,050	931	721	618
Gato Ridge	966	890	756	685	691
Lompoc	1,047	886	153	371	883
Newall-Portrero	3,459	3,199	2,871	2,656	2,239
Orcutt	1,144	1,099	1,046	976	925
Padre Canyon[2]	1,346				258
Placerita	1,590	1,458	1,333	1,126	983
Rincon	3,079	3,204	3,527	3,903	3,991
Romona	612				
San Ardo	11,733	11,845	10,864	10,994	11,519
San Miguelito	1,648	2,346	2,102	1,341	1,166
Santa Maria	2,713	2,544	2,198	1,968	1,939
South Mountain	4,995	6,561	6,980	7,384	6,709
Ventura	24,357	21,159	20,451	18,872	17,065
Zaca Creek	953	780	668	633	585
Other Coastal	12,500	20,188	20,021	19,766	18,754
Total Coastal	82,833	85,173	81,086	78,149	74,227
Los Angeles Basin:					
Brea Olinda	6,864	6,850	6,362	5,904	5,884
Coyote	4,498	4,471	3,942	2,333	4,302
Dominguez	4,366	3,992	3,710	3,417	3,572
Huntington Beach	22,468	21,452	19,447	18,110	16,761
Inglewood	4,466	4,642	4,419	4,280	4,545
Long Beach	7,748	6,761	6,167	5,841	5,615
Montebello	1,518	1,450	1,360	1,331	1,265
Newport	1,546	1,507	1,467	2,230	1,248
Richfield	2,290	2,112	2,133	2,073	1,985
Rosecrans[3]	1,185	1,119	971	996	988
Sansinena	3,798	3,646	2,604	2,219	2,430
Sante Fe Springs	5,193	4,444	3,890	3,334	2,887
Seal Beach	3,946	4,037	3,881	3,401	3,249
Torrance	2,614	2,715	3,084	2,615	2,261
Wilmington	36,844	32,306	31,417	26,993	27,494
Other Los Angeles Basin	7,096	7,176	5,481	7,358	7,634
Total Los Angeles Basin	116,440	108,680	100,335	92,435	92,120
Total California	350,754	339,646	313,672	308,946	304,356

[1] Preliminary figures. [2] Includes Oak Grove area. [3] Includes Athens.

Source: Conservation Committee of California oil producers.

TABLE 15.—Production of crude petroleum in Colorado, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Adena	5,709	5,518	4,965	6,463	7,567
Badger Creek-West	518	498	383		570
Big Beaver	876	896	1,062	1,014	990
Black Hollow	676	656	549	538	470
Bobcat	884	625	670	535	389
Cliff	979	565	553	557	484
Divide	405				
Graylin-South and Northwest	1,051	690	631	524	432
Lewis Creek	456				
Little Beaver Creek					1,601
Little Beaver-East	1,993	2,282	1,754	1,666	914
Mt. Hope-East and North	840	566	430	689	
Plum Bush Creek	1,232	1,062	1,138	790	1,021
Rangely	28,302	26,154	20,914	17,980	17,135
Sand River	483				
Wilson Creek	2,556	2,528	2,396	2,709	2,800
Yenter	647	621	658	509	394
Other [2]	10,909	12,321	12,633	12,466	12,398
Total Colorado	58,516	54,982	48,736	46,440	47,165

[1] Preliminary figures.
[2] Includes crude oil consumed on leases and net change in stocks held on leases for entire State.

Source: Oil and Gas Journal.

TABLE 16.—Production of crude petroleum in Illinois, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Albion	1,120	1,313	1,377	1,113	888
Benton	1,032	807	606	529	467
Boyd	899	952	668	485	382
Bridgeport	4,352	4,174	5,280	6,264	7,174
Centralia	546	2,076	3,480	2,160	1,420
Clay City	9,210	8,187	7,972	7,269	7,470
Dale	3,543	2,441	2,485	1,979	2,506
East Inman	1,513	1,415	1,537	1,126	746
Johnsonville	1,063	1,010	992	1,698	1,438
Loudon	9,828	11,691	13,158	12,586	12,628
New Harmony	4,022	3,462	4,430	4,758	5,252
Phillipstown	1,168	547	691	606	653
Robinson	2,621	2,752	2,755	3,197	3,624
Roland	2,503	2,449	2,155	1,860	1,545
Sailor Springs	1,794	1,552	1,531	1,378	1,382
Salem	6,606	5,644	6,475	6,926	8,482
Other fields [2]	30,526	26,611	24,683	22,793	22,783
Total Illinois	82,346	77,083	80,275	76,727	78,840

[1] Preliminary figures.
[2] Bureau of Mines figures.

Source: Oil and Gas Journal.

TABLE 17.—Pipeline runs of crude petroleum in Kansas, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960
Bemis-Shutts	3,055	5,922	5,063	4,868	4,472
Bloomer	1,024	954	789	723	679
Browning	400	1,126	1,031	768	400
Burnett	2,074	[1]	[1]	[1]	[1]
Chase-Silica	3,482	4,271	3,260	3,689	3,219
Cooper	1,513	1,416	1,317	1,109	951
El Dorado	4,359	4,619	4,371	4,443	4,291
Fairport	980	1,061	1,065	1,040	991
Garfield	1,836	1,742	1,092	649	464
Genesco-Edwards	2,784	2,236	1,812	1,680	1,565
Gladys	1,810	1,859	1,638	1,202	763
Gorham	1,515	1,501	1,499	1,421	1,311
Hall-Gurney	3,598	3,543	3,296	3,253	3,229
Iuka-Carmi	1,472	1,219	1,035	855	702
Kraft-Prusa	3,712	3,437	3,092	2,890	2,526
Marcotte	1,887	2,020	1,779	1,596	1,424
Morel	1,482	1,617	1,477	1,354	1,299
Ray	1,225	1,314	1,353	1,363	1,289
Rhodes	947	1,074	664	403	305
Ritz-Canton	1,470	1,563	1,542	1,321	1,199
Seeley-Wick	1,307	978	719	583	[2] 1,097
Silica South	1,003	[3]	[3]	[3]	[3]
Spivey-Grabs [4]	1,758	2,031	1,961	2,370	2,492
Trapp	4,241	3,728	3,366	3,120	2,752
Trico [5]	935	1,239	1,253	1,117	991
Unger	147	1,126	1,189	1,608	772
Welch-Bornholdt	1,106	1,240	1,216	932	878
Other fields	73,345	71,218	73,063	75,746	73,283
Total Kansas	124,467	124,054	119,942	119,503	113,344
Change in field stocks [6]				+40	+111
Total Kansas production [6]	124,204	123,614	119,942	119,543	[7] 113,455

[1] Combined with Bemis-Shutts in 1957.
[2] Includes Hamilton in 1960.
[3] Combined with Chase-Silica in 1957.
[4] Formed by combination of Spivey field and Grabs field in 1956.
[5] Formed in 1956 by combination of Allphin Northwest, Annon, Annon South, Basset, Laura Southeast Marcotte South, Noah, Spaulding, White Southwest.
[6] Bureau of Mines.
[7] Preliminary figure.

Source: Kansas Geological Survey.

TABLE 18.—Production of crude petroleum in Louisiana, by districts and fields

(Thousand barrels)

District and field	1956	1957	1958	1959	1960 [1]
Gulf Coast:					
Anse la Butte	1,890	2,065	1,656	1,775	1,687
Avery Island	3,303	3,240	2,580	2,712	3,089
Bateman Lake	1,718	2,120	2,191	2,836	2,694
Barataria	1,103	1,023	800	761	864
Bay de Chene	1,609	1,794	1,600	1,913	2,199
Bay Marchand	3,539	3,791	4,684	6,390	10,264
Bay St. Elaine	3,188	3,376	3,338	3,764	4,355
Bayou Blue	931	1,133	913	743	772
Bayou Choctaw	1,176	1,204	1,131	1,361	1,434
Bayou Mallet	1,043	823	829	981	812
Bayou Sale	2,825	2,712	2,297	3,138	3,948
Bully Camp	1,623	1,582	1,236	1,452	1,321
Caillou Island	9,626	11,298	11,260	14,751	17,040
Charenton	1,426	1,391	1,228	1,573	1,407
Cox Bay	2,762	2,303	1,565	1,348	1,391
Delta Farms	4,493	4,010	3,285	3,656	3,391
Dog Lake	947	887	755	770	738
Duck Lake	2,916	2,477	2,282	2,483	2,709
East White Lake	1,390	1,463	1,111	1,044	1,672
Egan	2,529	2,263	1,839	1,773	1,785
Erath	919	1,310	1,365	1,201	1,208
Garden Island	1,340	1,429	1,373	1,672	2,116

See footnotes at end of table.

TABLE 18.—Production of crude petroleum in Louisiana, by districts and fields—Continued

(Thousand barrels)

District and field	1956	1957	1958	1959	1960[1]
Gulf Coast—Continued					
Gibson	919	910	809	853	913
Golden Meadow	3,452	3,032	2,649	2,506	2,355
Good Hope	1,687	1,058	859	855	983
Grand Bay	4,030	4,113	3,178	3,084	4,067
Gueydan	963	961	800	923	1,119
Hackberry	5,927	6,903	5,914	5,706	5,251
Horseshoe Bayou	836	807	722	760	739
Iberia	800	814	785	841	886
Iowa	2,214	2,006	1,743	1,553	1,383
Jeanerette	1,143	1,271	1,147	1,219	1,170
Jennings	1,024	1,247	1,301	1,439	1,518
Lafitte	2,935	3,058	2,670	3,176	3,419
Lake Arthur South	1,097	1,024	1,077	1,531	1,510
Lake Barre	1,723	2,066	2,577	4,336	5,340
Lake Chicot	1,009	954	721	783	730
Lake Fausse Point	1,499	1,750	1,499	1,651	1,577
Lake Pelto	2,652	2,951	3,102	4,086	4,571
Lake Salvador	1,391	1,641	1,635	2,067	2,310
Lake Washington	7,849	11,089	9,682	11,098	11,329
La Rose	1,095	1,009	1,021	1,133	975
Leeville	4,094	4,033	3,711	3,829	3,826
Little Lake	2,353	2,453	2,096	2,509	2,274
Lockport	908	920	768	795	780
Main Pass	8,417	11,064	9,672	9,581	11,110
North Crowley	1,168	1,107	924	1,008	838
Paradis	2,843	2,625	2,286	2,479	2,732
Phoenix Lake	1,367	1,228	1,042	1,231	1,520
Pine Prairie	927	826	692	577	482
Point-a-la Hache	1,999	1,884	915		
Port Barre	852	763	680	781	877
Quarantine Bay	3,964	3,536	2,765	2,953	3,227
Romere Pass	3,485	3,488	2,638	2,807	2,736
St. Gabriel	825	731	597	529	585
Section 28	1,396	1,336	1,101	1,093	1,014
Shuteston	1,025	905	979	902	701
South Pass	8,208	9,301	10,359	7,168	11,120
Tepetate	1,706	1,580	1,418	1,442	1,499
Timbalier Bay	6,120	8,600	8,562	10,202	11,996
University	934	822	508	446	435
Valentine	1,802	1,688	2,302	2,981	3,502
Venice	5,117	5,514	4,317	4,411	4,567
Ville Platte	1,150	996	794	805	810
Vinton	2,203	2,061	1,756	1,777	1,856
Weeks Island	8,668	8,602	6,871	7,318	8,397
West Bay	3,326	4,016	3,705	4,275	5,182
West Cote Blanche	1,891	2,022	2,989	2,967	4,375
West Delta, Block 30				5,960	6,799
West Lake Verret	1,361	1,333	1,259	1,245	1,263
White Castle	786	966	842	887	965
Other Gulf Coast	77,653	97,011	102,601	126,433	133,258
Total Gulf Coast	252,494	283,769	272,358	317,082	347,767
Northern:					
Big Creek	679	587	476	483	428
Caddo	8,417	7,305	7,066	6,880	6,050
Cotton Valley	1,407	945	771	823	776
Delhi	6,301	6,411	4,931	5,086	5,144
Esperance Point	1,684	1,621	1,415	1,337	1,248
Haynesville	2,859	2,695	3,213	3,003	2,781
Lake St. John	2,430	2,258	2,072	1,845	1,569
Nebo[2]	1,905	1,746	1,468	1,523	1,513
Olla[3]	1,626	1,432	1,432	1,583	1,615
Rodessa	751	710	597	683	588
Sligo	1,043	1,340	1,277	1,405	1,388
Urania	786	765	766	812	837
Other Northern	17,039	18,312	16,049	20,121	22,656
Total Northern	46,927	46,127	41,533	45,584	46,593
Total Louisiana	299,421	329,896	313,891	362,666	[4] 394,360

[1] Preliminary figures.
[2] Includes Hemphill, Trout Creek, and Jena.
[3] Includes Little Creek and Summerville.
[4] Louisiana Conservation Department.

TABLE 19.—Production of crude petroleum in Michigan, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Beaver Creek	291	242	227	340	225
Coldwater	923	800	698	619	585
Deep River	875	576	286	225	190
East Norwich	402	361	332	294	276
Kawkawlin	434	595	583	496	446
Kimball Lake	57	42	22	16	11
Pentwater	197	165	135	117	80
Reed City and East Reed City	443	480	592	560	408
Rose City	392	302	292	338	298
St. Helen	209	174	142	155	148
Stony Lake	347	247	136	160	145
Other fields	6,170	6,185	5,863	7,119	12,853
Total Michigan	10,740	10,169	9,308	10,439	15,665

[1] Preliminary figures.

Source: Michigan Department of Conservation.

TABLE 20.—Production of crude petroleum in Mississippi, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Baxterville	5,874	4,939	4,993	5,843	5,877
Belton	842	1,148	1,248	1,380	1,436
Brookhaven	3,019	2,541	2,218	1,920	1,758
Bryan				1,222	1,888
Cranfield	1,299	1,206	982	840	733
Diamond			959	1,040	1,154
Eucutta	1,484	1,318	1,611	1,559	1,386
Heidelberg	3,641	3,395	2,916	3,672	3,351
La Grange and South	2,137	1,936	1,649	1,714	1,453
Little Creek			1,440	5,896	5,774
Mallalieu	1,021	841	739	744	593
Maxie-Pistol Ridge	998	1,277	1,185	1,207	1,000
Raleigh				2,168	2,157
Soso	4,289	4,241	4,174	4,651	3,901
Tinsley	4,399	3,884	3,830	3,532	3,347
Yellow Creek	1,494	1,323	1,054	1,020	1,170
Other fields	10,327	10,873	10,514	11,212	14,841
Total Mississippi	40,824	38,922	39,512	49,620	51,819

[1] Preliminary figures.

TABLE 21.—Production of crude petroleum in Montana, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Big Wall	255	248	218	204	264
Bowes	340	299	282	333	280
Cabin Creek	1,633	3,666	4,255	4,350	4,470
Cat Creek	162	163	170	151	181
Cut Bank	2,684	2,515	2,210	2,004	2,078
Elk Basin	2,007	2,603	3,143	4,065	2,718
Glendive	678	714	732	505	456
Kevin-Sunburst	1,017	953	969	833	744
Pine	3,667	5,326	5,346	4,832	5,112
Pondera	684	595	563	521	505
Poplar	4,098	4,894	4,641	3,775	3,232
Reagan	220	213	166	175	190
Sumatra	1,459	1,306	1,600	2,013	2,145
Other fields	2,856	3,677	3,662	6,096	7,865
Total Montana	21,760	27,172	27,957	29,857	30,240

[1] Preliminary figures.

Source: Montana Oil Conservation Board.

TABLE 22.—Production of crude petroleum in New Mexico, by districts and fields

(Thousand barrels)

District and field	1956	1957	1958	1959	1960 [1]
Southeast:					
Bagley	1,614	1,471	1,312	1,188	1,156
Brunson	1,193	870	627	519	
Caprock-East	6,942	6,362	5,216	6,581	5,525
Crossroad	1,358	1,307	1,402	1,426	1,480
Denton	10,778	9,391	7,968	7,141	6,293
Dollarhide-West	3,027	2,761	2,510	1,855	1,607
Drinkard	2,054	1,850	1,738	1,597	1,465
Eunice-Monument	10,527	12,817	11,674	7,896	7,632
Fowler	847	922	787	711	712
Gladiola	1,605	4,529	7,324	7,046	6,031
Grayburg-Jackson	945	845	1,318	1,554	1,707
Hare	973	829	583	634	522
Hobbs	3,401	3,495	3,248	3,399	3,357
Langlie-Mattix	2,046	1,989	1,996	2,289	2,955
Lovington-East	3,080	2,790	2,466	2,337	2,137
Maljamar	2,277	2,227	2,449	2,730	2,820
Moore	1,235	1,187	1,042	1,014	954
Saunders-South	1,727	1,534	1,781	2,476	2,306
Vacuum	3,944	3,724	3,348	3,709	4,061
Warren	1,473	1,007	1,604	1,194	1,095
Other fields [2]	25,433	30,333	29,571	36,151	37,719
Northwest	1,414	2,519	8,551	12,245	16,406
Total New Mexico	87,893	94,759	98,515	105,692	107,940

[1] Preliminary figures.
[2] Bureau of Mines figures.

Source: Oil and Gas Journal.

TABLE 23.—Production of crude petroleum in Oklahoma, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Allen	1,638	1,608	1,590	1,676	1,525
Beebe	745	707	625	606	697
Bradley	3,169	3,053	2,741	2,898	2,631
Burbank	13,519	14,280	14,548	14,463	15,676
Cache Creek	661	721	827	910	1,041
Cement	4,372	4,061	4,405	4,222	3,836
Cumberland	1,944	1,812	1,474	1,407	1,219
Cushing	2,549	2,650	2,702	2,585	2,515
Davenport	1,338	1,289	959	855	613
Dilworth	921	677	517	453	
Doyle	3,056	2,798	2,421	2,241	1,798
Elk City	5,326	4,078	2,806	2,113	1,741
Eola	3,566	3,886	3,188	3,863	3,470
Fitts	785	723	800	910	950
Garber	862	849	826	876	761
Glennpool	1,901	2,259	2,773	3,164	3,200
Golden Trend	20,204	17,245	13,106	10,627	11,071
Healdton	2,347	2,260	2,331	2,256	2,154
Hewitt	3,495	3,240	3,874	2,977	2,938
Holdenville-East	1,117	628	476	412	
Hoover-Northwest	2,063	1,863	2,417	2,039	1,329
Knox	1,291	1,232	1,045	941	2,206
Loco	1,606	1,542	1,372	1,290	1,309
Lucien	951	817	743	749	710
Moore-West		3,250	2,553	1,527	1,275
Naval Reserve	1,102	1,409	1,498	1,667	2,353
Oklahoma City	3,743	3,482	3,290	3,050	2,851
Olympic	1,752	1,573	1,341	1,101	967
Payson-East	786	467	(2)	423	893
Ringwood	484	(2)	(2)	(2)	

See footnotes at end of table.

TABLE 23.—Production of crude petroleum in Oklahoma, by fields—Continued

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Seminole:					
Bowlegs	685	655	619	665	905
Little River	571	478	430	390	388
St. Louis	1,486	1,443	1,410	1,379	1,422
Seminole	827	912	876	797	696
Sho-Vel-Tum	29,717	29,008	25,823	25,175	24,227
West Edmond	1,945	1,292	1,153	1,013	1,407
Witcher	378	(2)	(2)	(2)	
Yale-Quay	1,322	1,765	1,927	1,700	1,254
Other fields [3]	91,638	94,649	92,003	94,670	90,260
Total Oklahoma	215,862	214,661	200,699	198,090	192,288

[1] Preliminary figures.
[2] Included in "Other fields."
[3] Bureau of Mines figures.

Source: Oil and Gas Journal.

TABLE 24.—Production of crude petroleum in Texas, by districts and fields

(Thousand barrels)

District and field [1]	1956	1957	1958	1959	1960 [2]
Gulf Coast:					
Amelia	1,091	(3)	(3)	(3)	(3)
Anahuac	5,165	5,279	4,028	4,096	3,491
Barbers Hill	1,865	1,662	1,585	1,385	1,339
Beaumont-West	900	(3)	(3)	(3)	(3)
Bloomington	1,276	1,130	866	853	767
Boling	1,616	1,433	1,395	1,341	1,237
Chocolate Bayou	4,118	4,361	4,200	3,953	4,057
Conroe	10,455	9,492	6,979	6,958	6,001
Damon Mound	907	(3)	(3)	(3)	(3)
Dickenson-Gillock	3,946	3,571	3,222	2,967	3,077
Dyersdale	688	(3)	(3)	(3)	(3)
Esperson	1,023	1,005	1,037	976	909
Fairbanks	1,254	1,054	894	700	526
Falls City	854	(3)	(3)	(3)	(3)
Fannette	1,185	1,511	1,760	1,578	1,731
Francitas	1,540	1,272	846	815	641
Friendswood-Webster	10,515	9,511	6,760	6,865	5,801
Gohlke, Helen	2,081	1,715	1,244	1,246	1,041
Goose Creek	2,813	2,736	2,617	2,541	2,468
Greta	2,371	2,221	1,668	1,905	1,471
Hankamer	1,118	1,023	1,034	1,064	1,203
Hastings	11,396	10,304	7,919	9,318	7,741
Heyser	1,001	(3)	(3)	(3)	1,300
High Island	3,476	3,554	3,864	3,958	4,600
Houston-North-South	1,285	1,227	1,045	950	(3)
Hull	3,909	3,668	3,653	3,222	2,632
Humble	1,057	1,074	1,065	1,151	1,184
Liberty, South	3,324	4,100	5,657	4,565	3,560
Livingston	1,059	(3)	(3)	(3)	(3)
Lolita	1,459	1,378	1,407	1,703	1,505
Lovell Lake	870	(3)	(3)	751	416
McFadden	1,314	1,138	796	477	459
Manvel	1,649	1,469	1,069	1,099	1,055
Markham	1,598	1,819	1,957	1,701	1,356
O'Connor, Tom				7,049	7,697
Old Ocean	5,287	5,674	4,707	4,471	3,709
Oyster Bayou	2,968	2,612	2,044	2,148	1,822
Pierce Junction	5,395	6,720	5,007	3,846	2,962
Placedo	1,716	1,371	1,057	910	791
Port Neches	1,260	1,002	921	881	937
Raccoon Bend	2,084	1,694	1,321	1,348	1,293

See footnotes at end of table.

TABLE 24.—Production of crude petroleum in Texas, by districts and fields—Con.

(Thousand barrels)

District and field [1]	1956	1957	1958	1959	1960 [2]
Gulf Coast—Continued					
Refugio-Fox	2,190	2,055	1,923	1,824	1,595
Saratoga	1,112	1,618	1,431	1,119	937
Silsbee	1,284	937	1,221	2,047	1,460
Sour Lake	1,408	1,319	1,194	1,151	1,039
Stowell	1,738	1,198	603	615	507
Sugarland	932	853	608	616	518
Sugar Valley	1,101	921	715	695	637
Thompson	8,990	8,193	6,000	5,979	5,186
Tomball	2,242	2,035	1,498	1,619	1,523
Village Mill	2,511	2,730	2,063	2,137	1,578
West Columbia	2,365	2,475	2,687	2,934	2,942
West Ranch	6,314	6,190	4,641	4,713	4,137
Withers-Magnet	3,241	3,162	2,458	2,230	1,629
Other Gulf Coast	81,254	77,995	68,720	66,530	63,810
Total Gulf Coast	225,570	209,461	179,386	183,000	168,277
East Texas:					
East Texas Proper	77,582	70,109	52,593	53,691	49,029
Cayuga	1,088	999	925	937	899
Ham Gossett	871	659	486	462	419
Hawkins	16,304	14,786	10,687	10,796	9,174
Long Lake	1,161	1,779	645	681	524
New Hope	2,172	2,162	1,993	1,933	1,533
Pewitt Ranch	1,073	927	700	661	581
Pickton	1,429	1,189	983	808	603
Quitman	2,176	2,192	2,117	2,478	2,909
Talco	4,896	4,523	3,977	4,280	4,109
Van	8,703	7,823	5,683	5,700	4,885
Waskom	1,191	872	889	902	709
Woodlawn	652	419	380	384	(3)
Other East Texas	21,954	21,919	24,242	22,690	26,497
Total East Texas	141,252	130,358	106,300	106,403	101,871
Central Texas:					
Big Foot	2,148	1,610	2,021	1,686	1,435
Charlotte	2,960	2,071	1,541	1,474	1,255
Darst Creek	3,415	3,450	3,465	3,331	3,674
Luling	2,699	2,598	2,444	1,832	1,568
Other Central Texas	9,225	8,727	6,916	7,062	9,338
Total Central Texas	20,447	18,456	16,387	15,385	17,270
South Texas:					
Aqua Dulce	1,428	1,479	1,171	1,038	947
Flour Bluff	829	872	750	(3)	(3)
Fulton Beach	2,579	4,340	2,415	2,051	2,265
Garcia	931	834	645	(3)	(3)
Hoffman	1,385	1,440	1,210	1,384	1,240
Kelsey	3,833	3,359	2,457	2,568	2,295
London	1,238	1,083	728	(3)	(3)
Midway	1,090	940	644	(3)	(3)
Mirando				3,335	4,763
Mustang Island	2,566	2,246	1,755	2,207	1,515
Plymouth	6,043	4,757	3,992	6,157	6,385
Portilla	3,144	2,936	2,228	(3)	(3)
Saxet-Saxet Frio	1,173	1,312	847	790	685
Seeligson				7,838	8,050
Stratton	2,345	1,999	1,500	1,746	1,143
Sun	1,843	1,673	1,439	1,644	1,941
Taft	1,251	929	744	899	1,929
White Point	3,444	3,426	2,417	2,275	2,109
Willamar, West	2,442	2,072	1,491	1,512	1,346
Other South Texas	52,930	47,002	43,057	35,615	32,533
Total South Texas	90,494	82,699	69,490	71,059	69,146
North Texas	138,696	132,457	120,176	120,307	117,302
Panhandle	36,682	38,481	38,587	36,750	38,570

See footnotes at end of table.

TABLE 24.—Production of crude petroleum in Texas, by districts and fields—Con.

(Thousand barrels)

District and field [1]	1956	1957	1958	1959	1960 [2]
West Texas:					
Abell	1,520	1,590	1,465	1,366	1,251
Adair	2,392	2,107	1,552	1,915	1,886
Andector	5,510	4,500	2,719	2,815	3,254
Anton Irish-Anton	2,933	2,600	2,000	2,068	1,789
Benedum	2,225	1,982	1,657	1,520	1,282
Big Lake	801	(3)	(3)	(3)	(3)
Block 31	5,727	5,690	5,695	5,786	5,787
Bronte	932	1,865	1,261	1,252	1,060
Cedar Lake	1,464	1,385	1,061	1,088	1,152
Cogdell	6,848	6,908	4,972	6,188	5,281
Cowden	10,769	9,764	9,178	10,460	10,480
Cree-Sykes	1,079	1,241	761	807	710
Diamond M	9,381	8,465	5,779	5,903	6,123
Dollarhide	4,959	4,139	3,227	3,218	3,018
Elkhorn	900	(3)	(3)	(3)	(3)
Embar	1,704	1,862	1,522	1,702	1,290
Emma	3,259	3,452	2,621	3,033	2,749
Fort Chadborne	3,802	3,788	3,806	3,369	2,745
Fort Stockton	1,525	1,272	976	1,084	994
Foster	4,816	4,282	3,388	3,049	2,874
Fuhrman	3,662	4,471	3,878	3,969	3,743
Fullerton	6,495	5,977	5,700	6,087	5,834
Garza	2,815	2,625	2,104	2,040	1,766
Goldsmith	18,385	20,434	20,827	23,890	22,253
Good	1,383	1,248	1,022	1,381	1,549
Harper	2,217	2,424	1,999	1,927	1,497
Headlee				3,002	4,830
Hendrick	1,263	1,351	1,522	1,625	1,665
Howard-Glasscock	6,905	6,683	6,865	6,310	6,167
Hulldale Penn	2,104	1,763	1,278	1,340	1,255
Iatan-East and North				1,834	1,788
Jameson	6,905	4,822	3,360	2,971	2,560
Jordan	3,316	3,378	3,007	2,934	2,648
Kelly Snyder	25,339	26,827	19,568	21,072	17,557
Kermit	3,704	4,841	4,510	5,231	5,413
Keystone	7,801	7,005	6,214	5,962	4,679
Lea	1,506	1,359	1,047	963	830
Levelland	8,714	7,892	6,584	6,427	5,842
Luther	1,246	1,073	900	910	834
McCamey	1,730	1,881	1,947	1,885	1,889
McElroy	9,562	10,751	9,220	9,249	8,882
McFarland	2,050	3,708	5,954	2,134	1,534
Mabee	1,024	1,093	1,112	1,636	1,533
Magutex	2,232	2,132	1,604	2,223	2,011
Martin	2,199	2,067	1,515	1,456	1,234
Means	6,421	6,495	5,058	4,803	4,046
Midland Farms	7,638	7,143	5,993	6,746	6,076
Pegasus	5,165	4,490	3,342	3,984	4,047
Penwell	1,719	2,049	2,245	2,679	3,018
Prentice	5,753	5,164	4,322	4,284	3,470
Reinecke	1,525	1,401	1,008	1,014	860
Robertson	1,344	1,652	2,143	3,033	3,179
Russell	7,200	6,874	5,137	5,206	4,903
Salt Creek	4,039	3,679	2,840	3,952	3,333
Sand Hills	6,800	6,729	5,334	5,294	4,788
Seminole	5,584	5,246	3,836	3,802	3,261
Shafter Lake	3,444	3,019	2,375	2,487	2,132
Sharon Ridge	1,590	1,966	2,500	3,857	3,146
Slaughter	11,010	10,180	8,237	8,712	8,188
Sprayberry Trend	24,010	19,835	15,021	12,738	10,162
Three Bar	1,189	1,036	758	858	657
Tippett	(3)	(3)	(3)	1,684	1,380
Todd	2,435	1,939	1,298	1,462	1,414
Triple N	1,492	1,342	1,406	1,626	1,332
TXL	5,602	5,502	4,449	4,425	3,870
University	3,704	4,122	3,419	3,682	3,602
Vealmoor-East	3,248	2,903	2,088	2,072	1,780
Waddell	1,572	2,635	2,903	2,526	2,669
Ward-Estes	9,964	14,245	17,561	19,544	21,186
Wasson	15,617	14,377	11,566	12,830	12,005
Welch	1,835	1,858	1,616	2,087	1,909
Wellman	1,057	(3)	(3)	(3)	(3)

See footnotes at end of table.

TABLE 24.—Production of crude petroleum in Texas, by districts and fields—Con.

(Thousand barrels)

District and field [1]	1956	1957	1958	1959	1960
West Texas—Continued					
Westbrook	1,209	1,869	1,577	1,597	1,418
Wilshire	2,174	1,949	1,405	1,390	1,320
World	1,903	1,814	1,734	1,800	1,702
Yarbrough	2,141	1,900	1,372	1,294	779
Yates	9,681	8,818	6,396	6,343	5,495
Other West Texas	101,499	117,027	115,524	126,182	130,551
Total West Texas	454,667	461,955	409,840	439,074	421,196
Total Texas	1,107,808	1,073,867	940,166	971,978	933,632

[1] Texas Railroad Commission districts.
[2] Preliminary figures.
[3] Included in "Other fields."

TABLE 25.—Production of crude petroleum in Wyoming, by fields

(Thousand barrels)

Field	1956	1957	1958	1959	1960 [1]
Beaver Creek	2,436	2,289	2,391	2,389	2,782
Big Muddy	2,120	1,915	1,781	2,260	2,223
Big Sand Draw	2,543	2,648	2,586	2,489	1,982
Bonanza	5,581	5,075	4,801	3,497	2,695
Byron-Garland	7,916	6,978	6,474	7,820	7,907
Cole Creek-Northeast and South	1,094	985	879	746	318
Elk Basin	11,200	12,716	15,518	18,214	18,803
Fiddler Creek	(2)	(2)	(2)	3,525	6,174
Frannie	3,055	2,695	2,647	2,812	2,718
Gebo	1,342	1,165	1,067	1,163	1,226
Glenrock-South	3,488	3,091	2,711	2,509	2,017
Grass Creek	4,308	4,000	3,899	4,619	4,543
Hamilton Dome	5,106	5,617	8,577	9,294	12,045
Hidden Dome	(2)	(2)	(2)	2,867	2,251
Lance Creek	1,489	1,539	1,338	1,222	1,188
Little Buffalo	1,187	1,250	2,105	2,250	2,039
Lost Soldier-Bairoil	6,506	6,513	6,407	6,135	5,989
Oregon Basin	5,817	5,168	4,719	5,183	5,234
Salt Creek	5,085	6,796	8,486	7,500	9,515
Steamboat Butte	3,419	3,493	3,259	(3)	(2)
Sussex-Meadow	7,602	6,728	5,564	6,955	6,387
Winkleman	1,777	2,644	3,044	3,353	3,114
Other fields	21,759	26,279	27,319	29,248	34,371
Total Wyoming	104,830	109,584	115,572	126,050	135,521

[1] Preliminary figures.
[2] Included in "other fields."

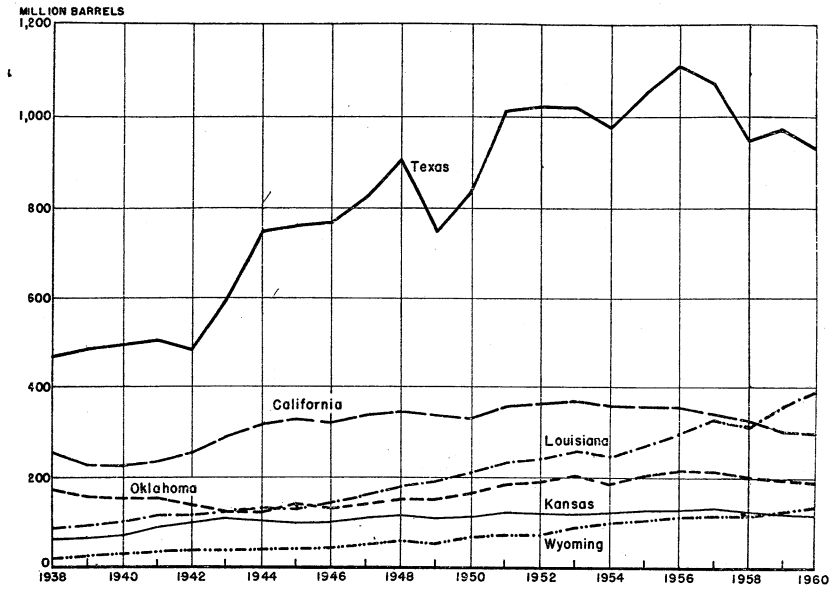

FIGURE 2.—Production of crude petroleum in the United States, 1938–60, by principal producing States.

WELLS

Drilling activity in the United States in 1960 was at its lowest ebb since 1951. The number of wells drilled, including oil, condensate, gas wells and dry holes, but excluding service wells, totaled 44,018. This represented a decline of 12.1 percent in the number of wells drilled for the year compared with 1959. The proportion of dry holes drilled to the total increased from 38.5 percent in 1959 to 39.9 percent in 1960.

States located along the east and west coast reported an increase in the number of wells drilled for the year, but 3,478 fewer wells were drilled in the Gulf coast area and 2,971 less, in the midcontinent area during 1960.

At the end of the year, a total of 591,158 oil wells were reported as producing an average of 12.0 barrels per day. On December 31, 1959, there were 583,141 producing oil wells with a daily average production of 12.2 barrels.

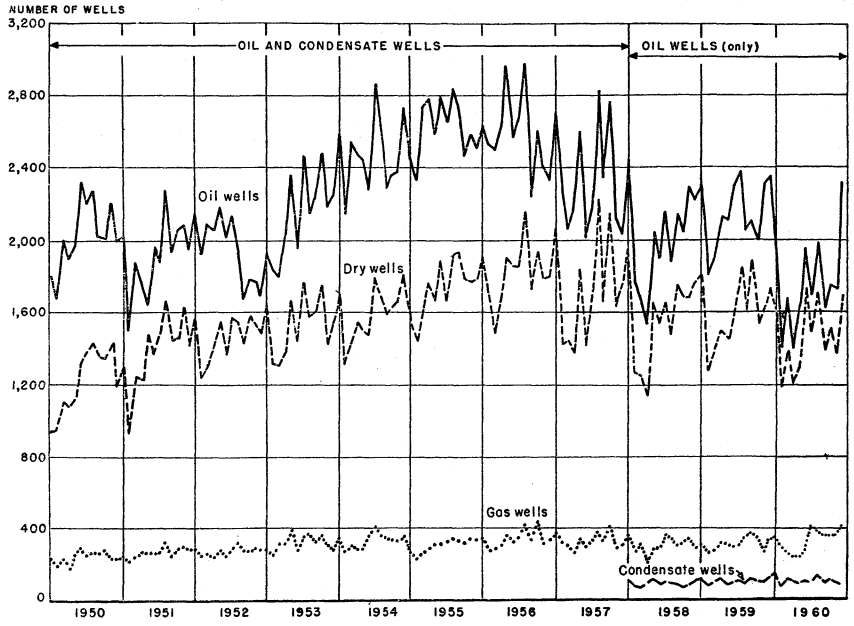

FIGURE 3.—Wells drilled for oil and gas in the United States, 1950–60, by months.

TABLE 26.—Wells drilled for oil and gas in the United States,[1] by months

Wells	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
													Number	Percent
1959:[2]														
Oil	2,334	1,807	1,937	2,122	2,102	2,308	2,375	2,055	2,108	1,999	2,316	2,337	25,800	51.5
Condensate	124	81	100	121	80	96	109	94	122	103	102	123	1,255	2.5
Gas	314	266	278	311	310	300	306	341	374	353	279	342	3,774	7.5
Dry	1,815	1,283	1,406	1,500	1,454	1,597	1,838	1,608	1,880	1,539	1,618	1,727	19,265	38.5
Total	4,587	3,437	3,721	4,054	3,946	4,301	4,628	4,098	4,484	3,994	4,315	4,529	50,094	100.0
1960:														
Oil	1,971	1,393	1,677	1,403	1,638	1,961	1,713	1,981	1,627	1,759	1,732	2,331	21,186	48.1
Condensate	161	71	118	99	95	114	100	127	107	116	103	95	1,306	3.0
Gas	347	293	263	240	242	272	406	387	361	363	362	416	3,952	9.0
Dry	1,610	1,191	1,372	1,203	1,283	1,727	1,507	1,713	1,406	1,498	1,377	1,687	17,574	39.9
Total	4,089	2,948	3,430	2,945	3,258	4,074	3,726	4,208	3,501	3,736	3,574	4,529	44,018	100.0

[1] Includes Alaska as follows, 1959: Oil, 5; condensate, 0; gas, 3; dry, 9. 1960: Oil, 12; condensate, 0; gas, 3; dry, 7.
[2] Revised.

Source: Oil and Gas Journal.

TABLE 27.—Wells drilled for oil and gas in the United States, by States and districts

State and district	1959[1]					1960				
	Oil	Condensate	Gas	Dry	Total	Oil	Condensate	Gas	Dry	Total
Alabama	70			25	95	38			7	45
Alaska	5		3	9	17	12		3	7	22
Arizona	2		1	24	27	3		1	31	35
Arkansas	462		41	334	837	292	2	36	279	609
California	884		73	512	1,469	1,160	1	114	419	1,694
Colorado	160	2	83	560	805	119	9	116	462	706
Florida				7	7				5	5
Georgia									1	1
Idaho									1	1
Illinois	1,009		9	1,062	2,080	776		8	1,055	1,839
Indiana	295		11	566	872	345		12	699	1,056
Iowa				1	1				4	4
Kansas	1,760	9	174	1,937	3,880	2,040	1	200	1,818	4,059
Kentucky	2,146		289	893	3,328	768		264	722	1,754
Louisiana:										
Gulf Coast	1,034	358	35	824	2,251	1,064	333	52	797	2,246
Northern	752	3	161	601	1,517	621	2	230	598	1,451
Total Louisiana	1,786	361	196	1,425	3,768	1,685	335	282	1,395	3,697
Maryland			1		1					
Michigan	241		54	308	603	357		26	428	811
Mississippi	251	30	2	362	645	308	30	9	347	694
Missouri	1			1	2	4			25	29
Montana	168		11	169	348	132		8	212	352
Nebraska	293		1	616	910	279		2	613	894
Nevada				2	2				3	3
New Mexico:										
West	410	43	334	112	899	197	32	351	96	676
East	829	9	25	302	1,165	817	14	23	305	1,159
Total New Mexico	1,239	52	359	414	2,064	1,014	46	374	401	1,835
New York	144		8	27	179	126		28	60	214
North Carolina				9	9				3	3
North Dakota	273	5		158	436	159	1		122	282
Ohio	484		297	274	1,055	454		260	304	1,018
Oklahoma	3,098	106	405	2,236	5,845	2,284	72	434	1,472	4,262
Oregon				2	2				11	11
Pennsylvania	160		327	67	554	256		269	91	616
South Dakota	13			10	23	7			15	22
Tennessee	5			53	58	10		2	80	92
Texas:										
Gulf Coast	682	270	133	903	1,988	633	264	170	850	1,917
West Texas	4,035	60	68	1,216	5,379	2,698	108	58	998	3,862
East Texas	715	87	11	429	1,242	718	92	6	485	1,301
Other districts	4,772	270	567	3,905	9,514	3,831	343	498	3,422	8,094
Total Texas	10,204	687	779	6,453	18,123	7,880	807	732	5,755	15,174
Utah	183		16	119	318	117		23	102	242
Virginia			10	1	11			8		8
Washington				4	4				5	5
West Virginia	93		550	124	767	78		686	94	858
Wyoming	371	3	74	501	949	483	2	55	526	1,066
Total United States	25,800	1,255	3,774	19,265	50,094	21,186	1,306	3,952	17,574	44,018

[1] Revised.

Source: Oil and Gas Journal.

TABLE 28.—Producing oil wells in the United States and average production per well per day, by States

State	Producing oil wells			
	1959		1960 [1]	
	Approximate number of producing oil wells, Dec. 31	Average production per well per day (barrels) [2]	Approximate number of producing oil wells, Dec. 31	Average production per well per day (barrels) [2]
Arkansas	6,155	12.2	6,381	12.6
California	36,915	23.1	37,771	22.3
Colorado	2,089	59.4	2,021	62.7
Illinois	31,826	6.6	31,995	6.8
Indiana	5,050	6.4	5,176	6.2
Kansas	40,175	8.4	40,460	7.7
Kentucky	21,165	3.7	20,571	2.8
Louisiana:				
Gulf Coast	11,110	79.2	12,232	81.4
Northern	12,358	10.2	12,450	10.3
Total Louisiana	23,468	42.7	24,682	44.8
Michigan	4,130	7.1	4,348	10.1
Mississippi	2,403	58.5	3,086	51.6
Montana	3,888	21.0	3,707	21.8
Nebraska	1,461	47.3	1,571	44.0
New Mexico:				
Southeastern	11,540	22.0	12,840	20.5
Northwestern	1,200	37.5	1,446	33.9
Total New Mexico	12,740	23.4	14,286	21.8
New York	19,230	.3	18,579	.3
North Dakota	1,390	38.5	1,451	42.2
Ohio	16,934	1.0	16,743	.8
Oklahoma	75,630	7.2	77,720	6.9
Pennsylvania	68,450	.2	66,260	.3
Texas: [3]				
Gulf Coast	18,818	23.2	18,881	24.4
East Texas proper	18,904	7.4	19,082	7.1
West Texas	60,730	19.9	62,459	18.7
Other districts	90,482	9.3	92,512	8.8
Total Texas	188,934	14.1	192,934	13.4
Utah	697	180.1	796	137.5
West Virginia	12,780	.5	12,560	.5
Wyoming	7,090	47.2	7,475	50.8
Other States	[4] 541	34.8	[5] 585	42.0
Total United States	583,141	12.2	591,158	12.0

[1] Preliminary figures.
[2] Based on the average number of wells during the year.
[3] Divisions of the Texas Railroad Commission.
[4] Alabama, 344 wells; Alaska, 5; Arizona, 2; Florida, 11; Missouri, 121; Nevada, 2; South Dakota, 14; Tennessee, 34; Virginia, 7; Washington, 1.
[5] Alabama, 380 wells; Alaska, 17; Arizona, 3; Florida, 11; Missouri, 120; Nevada, 2; South Dakota, 19; Tennessee, 27; Virginia, 5; Washington, 1.

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TABLE 29.—Runs to stills of crude petroleum in the United States in 1960, by district and month [1]

(Thousand barrels)

District [2]	January	February	March	April	May	June	July	August	September	October	November	December	Total
East Coast:													
Domestic	15,925	13,160	13,341	13,254	12,757	12,852	14,745	14,051	13,412	13,792	13,780	15,153	166,222
Foreign	18,902	19,242	21,098	18,452	22,246	20,996	22,142	20,928	21,551	22,125	18,080	18,160	243,922
Total East Coast	34,827	32,402	34,439	31,706	35,003	33,848	36,887	34,979	34,963	35,917	31,860	33,313	410,144
Appalachian No. 1	3,198	2,853	3,090	3,005	3,013	2,880	2,836	2,906	2,830	2,326	2,934	3,280	35,151
Appalachian No. 2	3,364	3,081	3,174	2,689	2,275	2,688	3,348	3,365	3,215	3,336	3,046	3,099	36,680
Indiana, Illinois, Kentucky, etc.:													
Domestic	48,409	42,961	45,268	44,179	43,875	43,342	44,594	46,570	43,763	43,507	42,459	45,469	534,396
Foreign	246	223	242	234	258	301	302	270	440	515	415	616	4,062
Total Indiana, Illinois, Kentucky, etc	48,655	43,184	45,510	44,413	44,133	43,643	44,896	46,840	44,203	44,022	42,874	46,085	538,458
Minnesota, Wisconsin, North Dakota and South Dakota:													
Domestic	1,892	1,581	1,592	1,962	2,159	1,927	1,955	2,395	2,138	2,388	2,188	2,132	24,309
Foreign	1,978	1,809	1,989	1,531	1,569	1,912	1,992	1,680	1,361	1,266	1,258	1,835	20,180
Total Minnesota, Wisconsin, North Dakota, and South Dakota	3,870	3,390	3,581	3,493	3,728	3,839	3,947	4,075	3,499	3,654	3,446	3,967	44,489
Oklahoma, Kansas, etc	23,582	21,492	21,237	20,811	21,447	22,541	22,898	23,312	22,146	20,904	21,163	22,797	264,330
Texas Inland	9,354	8,465	8,857	8,482	9,023	9,119	9,582	9,556	8,876	8,567	8,233	8,822	106,936
Texas Gulf Coast:													
Domestic	59,643	55,078	57,624	56,365	58,397	58,896	61,117	58,347	55,410	57,786	56,344	58,226	693,233
Foreign	393	59	172	190	195	106	39	127	79	2	91	153	1,606
Total Texas Gulf Coast	60,036	55,137	57,796	56,555	58,592	59,002	61,156	58,474	55,489	57,788	56,435	58,379	694,839
Louisiana Gulf Coast:													
Domestic	21,418	19,089	19,985	19,835	21,066	19,587	20,803	21,040	19,381	20,869	19,323	19,474	241,870
Foreign	2	136	----------	108	24	6	36	20	----------	35	35	34	436
Total Louisiana Gulf Coast	21,420	19,225	19,985	19,943	21,090	19,593	20,839	21,060	19,381	20,904	19,358	19,508	242,306
Arkansas, Louisiana Inland, etc	3,184	3,171	3,103	3,192	3,392	3,359	3,307	3,391	3,237	3,404	3,250	3,413	39,403
New Mexico	740	714	772	683	752	735	813	791	647	432	670	741	8,490

Rocky Mountain:													
Domestic	9,215	8,754	8,696	7,940	7,564	8,237	9,767	9,707	8,820	8,815	8,386	8,516	104,417
Foreign		1			2	3	3	3	2	1	2	3	20
Total Rocky Mountain	9,215	8,755	8,696	7,940	7,566	8,240	9,770	9,710	8,822	8,816	8,388	8,519	104,437
West Coast:													
Domestic	28,042	24,578	28,130	27,674	28,309	25,232	28,375	27,585	27,167	26,470	26,690	27,879	326,131
Foreign	7,172	7,433	7,053	8,223	8,524	9,054	8,868	9,704	8,524	8,617	8,442	9,126	100,740
Total West Coast	35,214	32,011	35,183	35,897	36,833	34,286	37,243	37,289	35,691	35,087	35,132	37,005	426,871
Total United States:													
Domestic	227,966	204,977	214,869	210,071	214,029	211,395	224,140	223,016	211,042	212,596	208,466	219,001	2,581,568
Foreign	28,693	28,903	30,554	28,738	32,818	32,378	33,382	32,732	31,957	32,561	28,323	29,927	370,966
Grand total: 1960	256,659	233,880	245,423	238,809	246,847	243,773	257,522	255,748	242,999	245,157	236,789	248,928	2,952,534
1959	255,124	227,562	254,422	235,982	244,789	239,607	244,316	250,508	236,326	237,066	239,517	252,442	2,917,661
Daily average, 1960	8,279	8,065	7,917	7,960	7,963	8,126	8,307	8,250	8,100	7,908	7,893	8,030	8,067

[1] Preliminary figures.

[2] Where no breakdown is shown, runs were all domestic crude.

CONSUMPTION AND DISTRIBUTION

The total demand for crude oil in the United States in 1960 was 8,097,900 barrels daily, an increase of 0.8 percent for the year. The demand for domestic crude oil increased 19,100 barrels per day and demand for foreign crude oil was 44,400 barrels per day above the 1959 level.

Foreign crude oil supplied 12.5 percent of crude oil requirements in 1960, compared with 12.1 percent in 1959.

Crude oil exports were slightly higher for the year, 2.5 million barrels in 1959 compared with 3.1 million in 1960.

Runs to Stills.—Crude runs to stills averaged 8,067,000 barrels daily in 1960, compared with 7,994,000 barrels daily in 1959. Domestic crude input averaged 7,053,000 barrels daily and foreign crude averaged 1,014,000 barrels daily for the year.

Distribution.—The Bureau of Mines collects data on receipts of domestic and foreign crude petroleum at refineries in the United States. These receipts include the crude runs to stills, a small quantity used as refinery fuel, and any increase in crude stocks at refineries. Classification of receipts, by State of origin, shows receipts from local production (intrastate), receipts from other States (interstate), and receipts of imported crude. Classification by method of transportation indicates the final receipts by water, pipeline, and tank car and truck. Receipts of domestic crude by water usually were moved by pipeline from the point of production to the point of water shipment.

Receipts of domestic and foreign crude petroleum at refineries totaled 2,951,000,000 barrels in 1960; foreign crude represented 12.6 percent of this total. The refineries processed 2,952,500,000 barrels and reported 1.4 million barrels used for refinery fuel and losses. The difference of 2.9 million barrels was withdrawn from stocks.

Refineries received 74.2 percent of their supply of crude oil by pipeline, 24.3 percent by water, and the remainder by tank cars and trucks.

The major waterborne shipments were from the gulf coast to the east coast and between States in the gulf coast districts. There are also interstate and intrastate shipments by water on the west coast and the Mississippi River.

All foreign crude receipts into the east coast and the gulf coast districts are received by water. Refineries in District II, which comprises the Great Lakes and the Midcontinent areas, receive most of their foreign crude by pipeline from Canada; however, some is barged with tanker up the river from gulf coast ports. Very little foreign crude is processed at refineries in the Rocky Mountain States; such crude as is used arrives at the refineries by rail from Canada. West coast refiners received 82.1 percent of their foreign crude supply by water, and the remainder is received by pipeline at refineries near the Canadian border.

Demand by States of Origin.—Distribution of domestic crude oil by refining States and districts can be analyzed from receipts of crude oil at refineries. When long distance shipments are involved, various crudes may be mixed in transit or storage, and identification by origin may be only approximate.

TABLE 30.—Receipts of domestic and foreign crude petroleum at refineries in the United States

(Million barrels)

Method of transportation	1956	1957	1958	1959	1960 [1]
By water:					
Intrastate	166.4	152.2	141.4	134.1	125.8
Interstate	220.6	253.7	233.7	242.7	261.6
Foreign	304.5	318.0	313.4	316.8	330.0
Total by water	691.5	723.9	688.5	693.6	717.4
By pipeline:					
Intrastate	1,329.1	1,296.7	1,208.3	1,282.8	1,291.6
Interstate	819.3	790.6	808.3	868.5	857.4
Foreign	37.3	47.8	30.4	33.4	40.6
Total by pipeline	2,185.7	2,135.1	2,047.0	2,184.7	2,189.6
By tank cars and trucks:					
Intrastate	28.9	31.9	27.6	31.8	33.9
Interstate	6.0	8.0	9.2	9.2	10.1
Foreign		0.1			
Total by tank cars and trucks	34.9	40.0	36.8	41.0	44.0
Grand total	2,912.1	2,899.0	2,772.3	2,919.3	2,951.0

[1] Preliminary figures.

TABLE 31.—Refinery receipts of domestic crude oil by States and districts, 1960

(Thousand barrels)

Receiving State and district	Total domestic receipts	Intrastate receipts	Interstate receipts from—																
			Ala. and Miss.	Ark.	Calif., Nev., and Alaska	Colo.	Fla. and N.Y.	Ill.	Ind. and Mich.	Kans.	Ky. and Ohio	La.	Mont.	Nebr., N.Dak., and S.Dak.	N.Mex.	Okla.	Texas	Utah	W.Va.	Wyo.	Total
Delaware, Massachusetts, Rhode Island	26,099	----	1,613	----	1,713	----	----	----	----	----	----	12,020	----	----	----	----	10,753	----	----	----	26,099
Florida, Georgia, South Carolina, Virginia	2,071	----	2,071	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2,071
Maryland	977	----	719	----	199	----	----	----	----	----	----	----	----	----	----	----	59	----	----	----	977
New Jersey	56,132	----	2,125	----	210	----	216	----	----	----	----	22,879	----	----	----	----	30,702	----	----	----	56,132
New York: East	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
West	17,648	----	----	----	----	----	----	2,420	----	2,223	----	----	3,009	----	----	2,998	6,998	----	----	----	17,648
Pennsylvania: East	81,029	----	5,272	----	----	----	----	----	----	----	----	17,494	----	----	147	----	58,116	----	----	----	81,029
West	14,924	7,101	----	----	----	140	1,487	1,851	----	----	1,115	----	2,056	145	----	535	----	----	494	----	7,823
West Virginia	2,465	1,653	----	----	----	----	----	----	----	----	812	----	----	----	----	----	----	----	----	----	812
Total, District 1	201,345	8,754	11,800	----	2,122	140	1,703	4,271	----	2,223	1,927	52,393	5,065	145	147	3,533	106,628	----	494	----	192,591
Illinois	199,578	26,801	----	----	----	3,352	----	----	1,458	9,513	----	771	----	929	11,807	28,470	96,276	5,107	----	15,094	172,777
Indiana	153,777	1,335	----	----	----	7,985	----	7,525	364	21,491	35	----	8,028	9,515	7,720	27,114	24,880	----	----	37,785	152,442
Kansas	109,962	86,692	----	----	----	3,839	----	----	----	----	----	----	----	953	5,629	9,935	2,339	----	----	575	23,270
Kentucky, Tennessee	40,032	21,008	4,622	876	----	----	----	----	3,218	----	----	9,200	----	----	----	----	1,032	----	----	76	19,024
Michigan	47,374	15,610	----	----	----	249	----	3,268	----	81	----	----	1,779	1,325	----	----	11,500	----	----	13,562	31,764
Minnesota, Wisconsin	8,392	----	----	----	----	----	----	----	----	----	----	----	344	5,183	----	----	----	----	----	2,865	8,392
Missouri	22,229	----	----	----	----	----	----	----	----	128	----	----	----	----	11,859	1,084	6,197	----	----	2,961	22,229
Nebraska	907	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	907	907
North Dakota	15,951	15,951	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ohio: East	36,713	3,005	491	333	----	333	----	27,396	----	2	1,519	698	370	----	----	1,643	----	----	----	923	33,708
West	92,381	28	355	1,878	240	2,556	----	13,697	----	89	1,451	16,613	----	3,399	1,450	9,621	39,020	----	----	1,984	92,353
Oklahoma	130,820	93,073	----	----	----	759	----	----	----	9,027	----	----	----	507	1,610	----	18,993	6,851	----	----	37,747
Total, District 2	858,116	263,503	5,468	3,087	240	19,073	----	51,886	5,040	40,331	3,005	27,282	10,521	21,811	40,075	77,867	200,237	11,958	----	76,732	594,613

Alabama, Mississippi	11,225	8,929	1,640	------	299	------	------	------	------	------	------	354	------	------	------	------	3	------	------	------	2,296
Arkansas	27,221	25,983	------	------	------	------	------	------	------	------	------	1,238	------	------	------	------	------	------	------	------	1,238
Louisiana	243,102	169,806	32,593	8,656	------	------	------	------	------	------	------	------	------	------	------	36	32,011	------	------	------	73,296
New Mexico	8,421	8,421	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Texas	800,597	615,312	401	------	------	------	------	------	------	------	------	124,507	------	------	47,462	8,004	------	4,805	------	106	185,285
Total, District 3	1,090,566	828,451	34,634	8,656	299	------	------	------	------	------	------	126,099	------	------	47,462	8,040	32,014	4,805	------	106	262,115
Colorado	12,380	1,070	------	------	------	------	------	------	------	------	------	------	1,822	------	59	------	------	------	------	9,429	11,310
Montana	25,014	9,538	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	15,476	15,476
Utah	31,157	5,536	------	------	------	20,156	------	------	------	------	------	------	------	------	296	------	------	------	------	5,169	25,621
Wyoming	35,735	33,436	------	------	------	2,296	------	------	------	------	------	------	------	3	------	------	------	------	------	------	2,299
Total, District 4	104,286	49,580	------	------	------	22,452	------	------	------	------	------	------	1,822	3	355	------	------	------	------	30,074	54,706
California	318,026	301,049	------	------	493	------	------	------	------	------	------	------	------	------	7,382	------	------	9,102	------	------	16,977
Washington, Oregon, Hawaii	8,101	------	------	------	1,753	------	------	------	------	------	------	------	------	------	3,879	------	------	2,469	------	------	8,101
Total, District 5	326,127	301,049	------	------	2,246	------	------	------	------	------	------	------	------	------	11,261	------	------	11,571	------	------	25,078
Total, 1960	2,580,440	1,451,337	51,902	11,743	4,907	41,665	1,703	56,157	5,040	42,554	4,932	205,774	17,408	21,959	99,300	89,440	338,879	28,334	494	106,912	1,129,103
Daily average, 1960	7,050	3,965	141	32	14	114	4	154	14	116	13	562	48	60	271	245	926	77	1	293	3,085
Daily average, 1950	7,039	3,969	137	36	22	97	1	155	20	129	13	438	37	44	260	259	1,061	80	1	280	3,070

TABLE 32.—Crude runs to stills and refinery receipts of crude oil by origin of the crude and method of transportation by States and districts, 1960

(Thousand barrels)

Receiving State and District	Crude runs to stills	Refinery fuel use and losses	Refinery receipts of domestic crude							Refinery receipts of foreign crude
			By State of origin of domestic crude	Change in refinery stocks	By receiving State and method of transportation					
					Intrastate			Interstate		
					Pipelines	Tank cars and trucks	Tankers and barges	Pipelines	Tank cars and trucks	Tankers and barges
Delaware, Massachusetts, Rhode Island	51,305	122		−202						26,099	25,126
Florida, Georgia, South Carolina, Virginia	17,643	−1	216	+7					450	1,621	15,578
Maryland	6,625	−8		−264						977	5,376
New Jersey	147,446	61		+163						56,132	91,538
New York:											
East	8,114			−98							8,016
West	17,655		1,487	−17				17,648			
Pennsylvania:											
East	179,011	175		+212						81,029	98,369
West	14,993	−9	7,101	−60	7,085	16		6,627	119	1,077	
West Virginia	2,493		2,147	−28	1,636	17		403	409		
Total, District 1	[1] 445,295	340	10,951	−287	8,721	33		24,678	978	166,935	244,003
Illinois	200,255	−50	82,958	−627	26,711	90		172,006		771	
Indiana	154,023	16	6,011	−262	485	850		151,978	464		
Kansas	109,940		129,246	+22	85,183	1,509		23,157	113		
Kentucky, Tennessee	40,126		23,978	−94	8,179	396	12,433	4,304	109	14,611	
Michigan	49,768	18	15,974	+130	14,566	1,044		31,764			[2] 2,542
Minnesota, Wisconsin	28,501	−2		−540				1,149	5,279	1,964	[2] 19,567
Missouri	22,446	2		−219				22,229			
Nebraska	902		16,776	+5				890	17		
North and South Dakota	15,988	3	21,134	−40	15,370	581					
Ohio:											
East	36,680	−4		+37	2,510	495		33,708			
West	94,286	2	4,995	−200	2	26		92,113		240	[3] 1,707
Oklahoma	131,042	42	182,513	−264	90,567	2,506		37,747			
Total, District 2	883,957	27	483,585	−2,052	243,573	7,497	12,433	571,045	5,982	17,586	23,816

Alabama, Mississippi	11,321	12	60,831	+49	5,600	1 940	1,389	----------	261	2,035	157
Arkansas	27,351	−4	37,726	−126	24,750	1,233	----------	1,183	55	----------	----------
Louisiana	243,037	144	375,580	+340	126,293	1,962	41,551	71,591	36	1,669	419
New Mexico	8,490	7	107,721	−76	8,256	165	----------	----------	----------	----------	----------
Texas	801,775	155	954,191	−296	571,578	10,209	33,525	120,484	12	64,789	1,037
Total, District 3	1,091,974	314	1,536 049	−109	736,477	15,509	76,465	193,258	364	68,493	1,613
Colorado	12,349	−16	42,735	+47	234	836	----------	11,246	64	----------	----------
Montana	25,004	−1	26,946	+31	8,653	885	----------	15,476	----------	----------	[4] 20
Utah	31,126	1	33,870	+30	5,339	197	----------	25,235	386	----------	----------
Wyoming	35,958	1	140,348	−224	31,770	1,666	----------	----------	2,299	----------	----------
Total, District 4	104,437	−15	243,899	−116	45,996	3,584	----------	51,957	2,749	----------	20
California, Nevada, Alaska	383,053	680	305,956	−1,271	256,844	7,270	36,935	16,484	----------	493	64,436
Washington, Oregon, Hawaii	43,818	22	----------	+980	----------	----------	----------	----------	----------	8,101	[5] 36,719
Total, District 5	426,871	702	305,956	−291	256,844	7,270	36,935	16,484	----------	8,594	101,155
Total 1960	2,952,534	1,368	2,580,440	−2,855	1,291,611	33,893	125,833	857,422	10,073	261,608	[6] 370,607
Daily average	8,067	4	7.050	−8	3,528	93	344	2,342	28	715	1,013
Daily average, 1959	7,994	5	7,039	−1	3,515	87	367	2,380	25	665	959

[1] Includes 219,286 in Delaware River Valley.
[2] Pipeline.
[3] Includes pipeline 454; barges 1,253.
[4] Tank cars and trucks.
[5] Includes pipeline 18,064; tankers 18,655.
[6] Excludes crude oil imported for direct fuel use.

TABLE 33.—Daily average total demand for crude petroleum in the United States in 1959–60, by State of origin and months

(Thousand barrels)

State	January	February	March	April	May	June	July	August	September	October	November	December	Year
1959:													
Alabama	18.3	15.3	13.5	18.8	5.6	14.2	18.0	13.5	18.0	15.8	18.7	15.0	15.4
Arkansas	80.3	82.9	74.2	87.2	81.5	69.0	67.0	60.5	65.7	64.2	64.8	70.5	72.2
California	831.8	821.3	851.6	862.2	882.8	830.9	915.7	884.2	872.5	875.2	858.7	811.5	858.5
Colorado	126.5	127.8	134.7	109.5	121.4	120.3	138.9	124.2	133.4	129.1	97.7	146.0	125.9
Florida	.2	.7	.5	4.3	.5	.6	.5	.3	.6	4.1	.4	.7	1.1
Illinois	230.1	277.3	207.3	192.7	170.4	204.6	198.7	218.2	212.2	197.4	212.6	244.6	213.4
Indiana	40.4	31.1	31.5	28.2	29.8	32.7	32.2	32.0	32.5	28.7	33.0	36.4	32.4
Kansas	350.3	354.1	354.6	292.5	297.9	345.3	306.6	319.1	365.2	304.5	326.0	327.1	328.4
Kentucky	73.7	66.8	63.1	73.3	81.7	87.7	78.8	70.9	72.0	73.6	70.8	70.7	73.6
Louisiana	951.5	930.9	949.0	963.7	984.3	949.4	986.1	1,033.3	1,022.1	992.5	1,051.9	1,066.8	990.5
Michigan	25.8	26.6	26.2	25.0	27.3	23.6	32.3	24.3	19.3	34.6	30.7	35.6	27.7
Mississippi	121.6	127.3	127.6	131.3	142.3	129.8	136.1	147.7	158.0	130.8	138.4	140.7	136.0
Montana	73.5	80.3	91.1	81.3	74.8	64.6	72.0	85.5	96.8	55.4	89.9	93.2	79.8
Nebraska	63.1	56.9	43.7	67.4	42.6	61.1	67.9	67.9	65.7	70.0	61.6	68.1	61.3
New Mexico	268.5	287.3	292.0	326.3	257.1	287.7	276.7	296.7	296.9	276.0	300.4	294.5	288.3
New York	6.3	5.4	6.2	5.7	5.2	5.7	5.7	5.4	5.5	5.4	5.4	5.5	5.6
North Dakota	46.8	49.1	44.0	49.6	47.2	50.7	53.4	46.0	52.0	20.2	58.7	59.3	48.0
Ohio	18.1	7.4	24.8	12.8	20.3	17.0	14.2	17.1	14.3	16.2	17.1	16.5	16.4
Oklahoma	576.1	556.8	556.9	565.3	554.2	545.1	542.6	530.9	508.7	522.9	497.4	523.1	540.1
Pennsylvania	16.5	15.0	18.6	14.8	13.9	24.6	16.0	12.3	19.3	19.1	20.4	20.0	17.5
Texas	2,948.0	2,840.9	2,923.5	2,822.3	2,786.4	2,613.3	2,434.8	2,700.6	2,432.6	2,451.4	2,547.1	2,667.5	2,680.2
Utah	101.9	116.8	112.4	115.2	100.8	124.3	113.1	117.2	109.5	96.6	109.2	97.7	109.4
West Virginia	6.5	5.4	5.6	6.9	2.1	3.6	5.0	5.9	7.7	7.4	5.3	7.2	5.7
Wyoming	323.2	332.4	357.9	251.3	327.1	364.1	368.9	336.4	361.1	309.0	348.5	337.8	334.9
Other States	1.5	.9	.7	.5	.5	.9	1.4	1.4	1.9	2.0	2.0	1.9	[1] 1.3
Total domestic crude	7,300.5	7,216.7	7,311.2	7,108.1	7,057.7	6,970.8	6,882.6	7,151.5	6,943.5	6,702.1	6,966.7	7,157.9	7,063.6
Foreign crude	997.0	960.8	948.6	802.9	875.6	1,051.1	1,031.3	964.0	965.9	979.0	1,046.8	1,025.1	970.8
Grand total 1959	8,297.5	8,177.5	8,259.8	7,911.0	7,933.3	8,021.9	7,913.9	8,115.5	7,909.4	7,681.1	8,013.5	8,183.0	8,034.4
Pennsylvania Grade (included above)	33.0	30.1	34.8	30.4	24.0	39.8	29.8	28.2	36.7	36.3	34.1	38.8	33.0
1960: [2]													
Alabama	15.9	22.3	14.6	14.8	25.8	19.6	18.1	19.5	30.0	21.5	15.7	24.5	20.2
Arkansas	67.7	87.6	77.6	76.5	88.8	75.6	84.0	84.5	78.9	78.1	85.5	73.1	79.8
California	849.0	782.1	842.3	855.8	839.7	814.0	901.1	865.8	839.4	806.7	858.4	858.1	843.0
Colorado	137.0	126.8	116.2	122.7	129.7	118.9	136.6	136.3	135.3	123.4	131.6	135.9	129.2
Florida	.2	.6	.5	4.1	.5	.7	.5	.3	.6	.6	.6	.6	.8
Illinois	226.9	211.2	221.8	193.4	194.2	219.5	218.4	243.2	232.0	227.2	213.5	229.6	219.3
Indiana	29.5	31.8	31.6	29.9	32.8	26.4	32.1	36.1	35.6	27.6	32.6	34.3	31.7
Kansas	323.5	306.9	309.9	264.9	316.6	312.5	328.2	345.5	312.1	290.0	308.5	310.4	310.9
Kentucky	68.9	67.0	56.8	63.8	61.2	60.1	57.5	69.5	60.4	56.6	50.9	54.4	60.6
Louisiana	1,059.2	1,048.1	1,073.6	1,106.7	1,031.9	1,069.2	1,089.5	1,031.2	1,033.3	1,126.2	1,079.1	1,107.8	1,071.4
Michigan	35.7	37.2	34.8	40.9	30.8	35.3	38.6	51.5	49.0	46.4	55.0	55.3	42.5

Mississippi	149.2	130.2	139.8	145.7	153.8	130.6	127.8	140.7	156.7	138.7	138.1	147.5	141.6
Montana	74.4	85.8	89.9	70.2	75.5	78.8	91.4	87.1	79.4	80.8	90.5	89.3	82.8
Nebraska	72.3	65.6	60.6	52.9	60.9	68.8	73.1	79.1	70.9	75.9	63.8	61.4	67.1
New Mexico	307.1	315.5	282.5	266.6	304.8	280.6	288.5	318.2	301.6	264.0	304.4	314.4	295.6
New York	4.7	5.0	5.1	5.3	5.1	5.3	4.9	4.9	5.0	4.6	4.8	4.7	4.9
North Dakota	60.2	56.6	48.0	58.8	60.6	58.7	57.3	66.2	58.4	61.3	61.3	66.3	59.5
Ohio	16.6	15.0	14.5	11.4	10.6	12.1	16.1	13.6	12.8	15.3	10.5	16.0	13.7
Oklahoma	557.5	558.5	506.0	538.3	474.7	547.3	532.7	554.7	546.8	500.0	516.4	520.6	529.2
Pennsylvania	24.4	14.6	19.5	18.4	18.1	18.0	14.5	14.7	19.9	17.6	16.6	18.7	17.9
Texas	2,823.2	2,697.4	2,551.0	2,624.9	2,609.4	2,612.7	2,603.9	2,535.0	2,502.9	2,448.1	2,462.3	2,488.8	2,579.4
Utah	116.1	110.2	94.8	112.8	93.6	108.9	101.4	100.5	96.5	90.2	92.3	107.0	102.0
West Virginia	6.2	5.4	6.7	5.8	6.7	5.7	6.5	6.7	6.2	6.7	9.1	4.6	6.4
Wyoming	358.5	319.3	359.6	346.1	301.1	399.9	432.4	412.2	397.0	378.4	369.0	370.1	370.5
Other States	1.3	1.3	2.1	1.8	1.9	1.2	2.4	2.0	2.6	1.6	1.9	6.4	[3] 2.4
Total domestic crude	7,385.2	7,102.0	6,959.8	7,032.5	6,928.8	7,080.4	7,257.5	7,219.0	7,063.3	6,887.5	6,972.4	7,099.8	7,082.7
Foreign crude	926.8	997.8	987.7	959.3	1,062.5	1,083.0	1,077.7	1,057.4	1,067.8	1,051.8	942.0	966.7	1,015.2
Grand total 1960	8,312.0	8,099.8	7,947.5	7,991.8	7,991.3	8,163.4	8,335.2	8,276.4	8,131.1	7,939.3	7,914.4	8,066.5	8,097.9
Pennsylvania Grade (included above)	40.2	29.1	35.2	34.1	33.0	33.3	29.0	30.1	34.7	33.3	32.7	35.4	33.4

[1] Alaska, 0.5; Arizona, 0.1; Missouri, 0.2; Nevada, 0.1; South Dakota, 0.4; Tennessee, Virginia and Washington were less than 0.05.

[2] Preliminary figures.

[3] Alaska, 1.0; Arizona, 0.2; Missouri, 0.2; Nevada, 0.1; South Dakota, 0.8; Tennessee, Virginia and Washington were less than 0.05.

TABLE 34.—Total demand for crude petroleum in the United States, 1959–60, by States of origin and months

(Thousand barrels)

State	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959:													
Alabama	566	429	418	564	175	426	557	420	539	490	560	466	5,610
Arkansas	2,489	2,322	2,299	2,617	2,527	2,069	2,078	1,876	1,971	1,990	1,943	2,184	26,365
California	25,786	22,995	26,399	25,866	27,368	24,926	28,388	27,409	26,176	27,130	25,762	25,155	313,360
Colorado	3,923	3,579	4,175	3,286	3,763	3,608	4,305	3,851	4,001	4,002	2,935	4,525	45,953
Florida	6	20	16	130	17	18	14	10	18	128	11	23	411
Illinois	7,134	7,765	6,427	5,781	5,281	6,139	6,161	6,763	6,365	6,118	6,379	7,584	77,897
Indiana	1,252	873	976	845	925	r 981	998	991	974	889	991	1,127	11,822
Kansas	10,858	9,915	10,993	8,776	9,235	10,360	9,506	9,892	10,956	9,440	9,780	10,141	119,852
Kentucky	2,286	1,869	1,957	2,200	2,534	2,631	2,439	2,199	2,160	2,281	2,120	2,192	26,868
Louisiana	29,498	26,064	29,420	28,910	30,514	28,484	30,565	32,033	30,663	30,768	31,556	33,071	361,546
Michigan	801	745	812	749	846	707	1,002	753	580	1,073	921	1,105	10,094
Mississippi	3,770	3,565	3,955	3,938	4,412	3,893	4,220	4,580	4,740	4,056	4,151	4,363	49,643
Montana	2,280	2,249	2,823	2,440	2,320	1,937	2,231	2,651	2,906	1,718	2,697	2,888	29,140
Nebraska	1,957	1,592	1,355	2,023	1,320	1,832	2,106	2,106	1,971	2,170	1,849	2,111	22,392
New Mexico	8,323	8,044	9,052	9,788	7,969	8,631	8,579	9,198	8,907	8,556	9,013	9,129	105,189
New York	196	151	192	170	162	170	178	166	165	167	163	170	2,050
North Dakota	1,451	1,376	1,363	1,488	1,462	1,521	1,655	1,427	1,560	626	1,762	1,838	17,529
Ohio	558	206	769	383	629	510	441	530	429	501	513	511	5,980
Oklahoma	17,856	15,592	17,264	16,960	17,177	16,355	16,820	16,457	15,260	16,210	14,918	16,216	197,085
Pennsylvania	510	420	578	444	431	738	497	381	578	592	613	620	6,402
Texas	91,389	79,544	90,628	84,669	86,375	78,400	75,480	83,714	72,977	75,994	76,412	82,692	978,274
Utah	3,159	3,270	3,485	3,455	3,124	3,728	3,505	3,632	3,285	2,996	3,276	3,028	39,943
West Virginia	202	150	173	207	66	109	156	184	232	228	160	224	2,091
Wyoming	10,019	9,306	11,094	7,339	10,141	10,922	11,437	10,428	10,833	9,580	10,456	10,472	122,227
Other States	47	26	23	15	17	28	43	44	57	61	60	59	[1] 480
Total domestic crude	226,316	202,067	226,646	213,043	218,790	209,123	213,361	221,695	208,303	207,764	209,001	221,894	2,578,203
Foreign crude	30,908	26,903	29,406	24,088	27,144	31,533	31,971	29,884	28,978	30,348	31,403	31,778	354,344
Grand total 1959	257,224	228,970	256,052	237,331	245,934	240,656	245,332	251,579	237,281	238,112	240,404	253,672	2,932,547
Daily average:													
Domestic crude	7,301	7,217	7,311	7,108	7,058	6,971	6,883	7,151	6,943	6,702	6,967	7,158	7,064
Domestic and foreign crude	8,298	8,178	8,260	7,911	7,933	8,022	7,914	8,115	7,909	7,681	8,013	8,183	8,034
Pennsylvania Grade (included above)	1,022	844	1,078	912	744	1,193	925	873	1,100	1,126	1,023	1,204	12,044
1960: [2]													
Alabama	494	647	450	443	800	587	562	603	900	667	472	761	7,386
Arkansas	2,098	2,540	2,408	2,296	2,754	2,267	2,604	2,619	2,364	2,422	2,565	2,265	29,202
California	26,318	22,680	26,112	25,674	26,033	24,420	27,935	26,841	25,181	25,008	25,752	26,600	308,554
Colorado	4,246	3,677	3,601	3,682	4,020	3,566	4,236	4,226	4,059	3,824	3,948	4,213	47,298
Florida	6	17	18	124	18	21	17	11	18	17	17	19	303

Illinois	7,033	6,125	6,876	5,802	6,020	6,585	6,770	7,540	6,961	7,042	6,406	7,118	80,278
Indiana	916	921	980	899	1,017	792	994	1,120	1,068	857	975	1,062	11,601
Kansas	10,030	8,901	9,605	7,946	9,813	9,374	10,174	10,709	9,364	8,990	9,256	9,623	113,785
Kentucky	2,137	1,942	1,761	1,914	1,898	1,803	1,784	2,156	1,811	1,755	1,526	1,687	22,174
Louisiana	32,834	30,396	33,280	33,199	31,989	32,076	33,775	31,968	31,000	34,912	32,372	34,342	392,143
Michigan	1,106	1,079	1,078	1,228	954	1,060	1,196	1,596	1,470	1,438	1,650	1,713	15,568
Mississippi	4,624	3,777	4,336	4,373	4,767	3,917	3,961	4,362	4,703	4,299	4,144	4,570	51,833
Montana	2,307	2,487	2,789	2,107	2,340	2,364	2,834	2,700	2,381	2,507	2,716	2,767	30,299
Nebraska	2,240	1,901	1,880	1,586	1,887	2,064	2,266	2,448	2,127	2,353	1,910	1,903	24,565
New Mexico	9,520	9,150	8,756	7,996	9,449	8,418	8,945	9,863	9,048	8,183	9,132	9,747	108,207
New York	147	146	156	160	157	158	151	151	150	143	143	143	1,805
North Dakota	1,865	1,642	1,489	1,764	1,880	1,761	1,775	2,052	1,752	1,900	1,840	2,055	21,775
Ohio	515	435	447	342	330	364	500	423	383	475	316	496	5,026
Oklahoma	17,282	16,196	15,689	16,148	14,715	16,418	16,515	17,198	16,405	15,500	15,491	16,138	193,695
Pennsylvania	756	422	606	550	560	541	451	455	598	546	499	580	6,564
Texas	87,520	78,224	79,082	78,747	80,892	78,381	80,721	78,584	75,086	75,891	73,869	77,154	944,151
Utah	3,600	3,197	2,937	3,382	2,901	3,267	3,143	3,112	2,896	2,795	2,768	3,317	37,315
West Virginia	193	156	207	174	209	172	197	208	187	208	273	144	2,328
Wyoming	11,113	9,259	11,148	10,384	9,334	11,997	13,405	12,781	11,911	11,732	11,071	11,473	135,608
Other states	42	40	66	55	57	38	76	63	77	50	60	202	[3] 826
Total domestic crude	228,942	205,957	215,757	210,975	214,794	212,411	224,987	223,789	211,900	213,514	209,171	220,092	2,592,289
Foreign crude	28,731	28,937	30,617	28,779	32,939	32,491	33,405	32,778	32,035	32,607	28,263	29,966	371,548
Grand total 1960	257,673	234,894	246,374	239,754	247,733	244,902	258,392	256,567	243,935	246,121	237,434	250,058	2,963,837
Daily average:													
Domestic crude	7,385	7,102	6,960	7,032	6,929	7,080	7,258	7,219	7,063	6,888	6,972	7,100	7,083
Domestic and foreign crude	8,312	8,100	7,948	7,992	7,991	8,163	8,335	8,276	8,131	7,939	7,914	8,066	8,098
Pennsylvania Grade (included above)	1,247	845	1,091	1,023	1,025	998	899	932	1,041	1,032	981	1,098	12,212

[1] Alaska, 187; Arizona, 25; Missouri, 75; Nevada, 32; South Dakota, 148; Tennessee, 6; Virginia, 6; and Washington, 1.

[2] Preliminary figures.

[3] Alaska, 360; Arizona, 73; Missouri, 72; Nevada, 25; South Dakota, 283; Tennessee, 6; Virginia, 6; and Washington, 1.

STOCKS

Total stocks of all oils declined 30.2 million barrels in 1960. Stocks of crude oil were down 17.3 million barrels. Refined product stocks declined 16.9 million barrels. Stocks of natural gas liquids increased 4.0 million barrels.

During the year, a concerted effort was made by spokesmen of the of the petroleum industry, trade publications, and State regulatory agencies to get industrywide cooperation in tailoring new supply to demand. The purpose was to avoid heavy stock buildups, which cause an excess of products seeking markets with resultant price cutting.

TABLE 35.—Stocks of crude petroleum, natural-gas liquids, and refined products in the United States at end of year

(Thousand barrels)

Product	1956	1957	1958 [1]	1959 [1]	1959 [2]	1959 [3]	1960 [3]
Crude petroleum:							
At refineries	71,721	76,576	69,568	69,305	69,305	69,305	66,450
Pipeline and tank farm	173,278	183,526	172,458	167,147	167,147	167,147	152,848
Producers	21,015	21,711	20,704	20,665	20,677	20,677	20,502
Total crude petroleum	266,014	281,813	262,730	257,117	257,129	257,129	239,800
Natural-gas liquids	20,559	20,156	22,752	24,887	24,887	24,887	28,931
Refined products	493,818	537,937	503,314	525,053	526,026	526,954	510,004
Grand total	780,391	839,906	788,796	807,057	808,042	808,970	778,735

[1] Old basis, excludes bulk terminal stocks in Alaska as follows: 1958: crude, 12,000 barrels; refined products 730,000 barrels. 1959: crude, 12,000 barrels; refined products, 973,000 barrels.
[2] Includes Alaska. For details, see table 4.
[3] Includes Alaska and Hawaii. For details on Hawaii in 1959, see table 5.

TABLE 36.—Stocks of crude petroleum in the United States by State of origin, by month, 1960

(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	522	519	313	400	540	419	481	577	631	367	365	519	393
Alaska	12	3	2	2	2	5	17	11	19	24	106	215	210
Arkansas	2,035	2,121	1,949	1,941	2,017	1,848	1,904	1,743	1,552	1,585	1,702	1,583	1,786
California, Arizona	28,913	28,290	29,614	29,247	28,613	28,471	29,172	27,098	25,942	25,545	26,358	25,630	24,715
Colorado	3,242	2,961	2,983	3,371	3,520	3,462	3,742	3,487	3,156	3,017	3,249	3,215	3,109
Florida	80	109	127	145	51	64	71	85	104	113	124	134	145
Illinois	7,826	7,668	7,713	7,342	7,998	8,613	8,617	8,463	7,690	7,276	6,950	7,082	6,388
Indiana	328	421	439	409	467	421	540	506	461	335	429	405	317
Kansas	9,728	9,431	9,472	9,122	10,571	10,308	10,020	9,256	8,333	8,420	9,040	9,353	9,398
Kentucky	2,056	1,892	1,675	1,658	1,592	1,573	1,609	1,561	1,278	1,136	1,098	1,168	1,026
Louisiana	17,347	18,135	19,038	19,473	18,778	18,835	17,962	16,711	17,329	17,911	17,153	18,480	19,564
Michigan	1,162	1,083	1,025	1,124	1,067	1,124	1,321	1,425	1,285	1,256	1,432	1,317	1,259
Mississippi	2,360	2,387	2,786	2,630	2,364	2,080	2,378	2,640	2,583	2,078	2,124	2,375	2,346
Montana	3,253	3,502	3,481	3,235	3,571	3,641	3,702	3,472	3,389	3,527	3,619	3,412	3,194
Nebraska	1,963	1,710	1,627	1,671	1,944	2,076	2,062	1,996	1,794	1,737	1,569	1,663	1,826
New Mexico	8,358	8,161	7,851	8,506	9,221	8,706	9,046	9,132	8,563	8,399	9,304	9,191	8,091
New York	43	46	45	47	42	44	43	39	39	39	43	47	39
North Dakota	1,106	1,030	1,182	1,201	1,025	829	892	1,030	1,051	1,132	1,141	1,207	1,285
Ohio	644	562	527	505	577	658	714	614	637	671	605	700	578
Oklahoma	18,413	18,471	18,434	19,437	19,212	20,730	19,679	18,816	17,459	16,082	16,595	16,905	17,006
Pennsylvania	1,218	971	1,043	948	933	917	930	974	1,082	1,023	1,004	1,026	912
South Dakota	5	8	14	15	3	4	3	3	3	3	3	3	3
Texas	111,132	107,759	109,023	113,353	112,511	107,555	104,237	98,912	96,415	96,358	95,800	97,728	100,613
Utah	3,148	2,968	2,939	3,387	3,183	3,426	3,319	3,121	2,944	2,938	2,712	3,299	3,432
West Virginia	653	627	632	619	644	628	662	650	650	674	670	604	643
Wyoming	17,601	17,511	18,441	17,798	17,306	18,808	17,881	16,340	15,629	15,591	16,215	16,970	17,514
Total domestic crude	243,148	238,346	242,375	247,595	247,752	245,254	241,004	228,662	220,018	217,237	219,410	224,231	225,792
Foreign [1]	13,981	13,860	14,653	13,328	18,426	16,058	16,297	14,083	14,073	14,729	13,580	15,297	14,008
Grand total	257,129	252,206	257,028	260,923	266,178	261,312	257,301	242,745	234,091	231,966	232,990	239,528	239,800
Pennsylvania grade (includes above)	2,154	1,852	1,921	1,814	1,803	1,789	1,836	1,887	2,011	2,002	1,984	2,007	1,815

[1] Includes foreign crude petroleum held in P.A.D. district V: December 1959, 4,524,000 January, 4,107,000 February, 4,035,000; March, 3,685,000; April, 4,593,000; May, 4,416,000; June, 4,093,000; July, 3,162,000; August, 3,732,000; September, 4,911,000; October, 4,485,000; November, 4,719,000; December, 4,881,000 barrels.

TABLE 37.—Stocks of crude petroleum in the United States by location, by month, 1960

(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	497	556	536	509	575	427	484	593	479	253	324	361	226
Alaska	12	3	2	2	2	5	17	11	19	24	106	144	93
Arizona	448	453	455	451	451	450	450	452	455	453	450	450	450
Arkansas	1,984	2,131	2,023	2,009	1,944	1,839	1,750	1,799	1,671	1,667	1,635	1,654	1,560
California, Oregon, Washington	33,815	32,779	34,088	33,368	33,337	33,074	33,226	30,230	30,099	30,438	30,691	30,227	29,244
Colorado	1,714	1,526	1,594	1,629	1,932	1,759	1,751	1,642	1,540	1,576	1,521	1,659	1,517
Florida, Georgia, South Carolina, Virginia	888	772	915	878	888	937	839	778	814	980	881	661	854
Hawaii										236	372	674	950
Illinois	15,693	15,292	15,436	15,144	15,458	16,495	16,720	15,045	15,112	14,403	13,953	14,066	14,416
Indiana	4,589	4,768	4,651	4,699	4,817	4,965	5,135	5,193	4,761	4,578	4,831	4,550	4,325
Iowa, Missouri	6,810	6,778	6,967	7,184	7,161	6,899	6,901	6,755	6,648	6,502	6,533	6,290	6,372
Kansas	10,657	10,434	10,790	10,851	11,762	12,280	11,665	10,746	9,785	9,713	10,645	11,435	11,193
Kentucky, Tennessee	3,676	3,529	3,618	3,512	3,439	3,634	3,403	3,268	2,969	3,080	2,695	3,102	2,914
Louisiana	13,815	13,552	14,502	14,508	14,589	13,134	13,051	13,084	12,872	13,164	12,893	13,716	14,774
Maryland	578	713	851	827	648	671	905	678	386	647	508	346	314
Massachusetts, Delaware, Rhode Island	1,606	1,570	1,511	1,809	1,710	2,413	2,274	1,745	2,085	1,971	1,464	1,913	1,404
Michigan	1,939	1,851	1,860	1,881	1,909	2,005	2,133	2,184	2,045	1,941	2,294	2,129	2,169
Minnesota, Wisconsin	1,317	1,108	1,208	1,191	1,359	1,364	1,242	1,245	1,297	1,229	1,140	1,505	1,275
Mississippi	1,939	1,837	2,065	2,108	1,994	2,088	2,040	1,871	1,922	1,735	1,593	1,837	1,755
Montana	1,852	1,949	2,042	2,200	2,163	2,175	2,210	1,906	1,829	1,819	1,988	1,789	1,985
Nebraska	1,736	1,712	1,748	1,761	1,809	1,846	1,888	1,690	1,529	1,542	1,578	1,562	1,674
New Jersey	5,400	6,076	5,204	5,727	6,576	5,104	6,500	5,922	5,943	5,793	5,123	5,891	5,816
New Mexico	3,598	3,604	3,473	3,294	3,609	3,304	3,284	3,133	3,201	3,252	3,417	3,863	3,619
New York	866	554	669	713	904	678	865	557	560	785	516	537	714
North Dakota	896	894	1,056	1,007	849	713	709	789	818	828	814	847	930
Ohio	6,646	6,415	6,316	6,214	6,414	6,761	6,880	7,286	6,728	6,214	6,144	6,217	5,977
Oklahoma	21,069	18,816	19,467	21,083	21,162	21,580	21,400	20,341	17,442	16,863	18,070	18,124	18,518
Pennsylvania	8,553	8,723	8,301	7,693	11,063	10,214	9,181	9,668	8,905	8,972	8,755	8,955	7,990
South Dakota	4	4	4	4	3	4	3	3	3	3	3	3	3
Texas	92,269	91,757	94,028	96,924	96,198	92,135	88,349	83,089	82,047	81,562	81,987	83,966	85,364
Utah	947	951	855	1,016	1,076	987	1,176	1,019	873	995	1,020	943	1,044
West Virginia	639	592	597	571	620	627	670	654	684	681	649	656	630
Wyoming	10,677	10,507	10,196	10,156	9,757	10,745	10,200	9,369	8,570	8,067	8,397	9,456	9,689
Total	257,129	252,206	257,028	260,923	266,178	261,312	257,301	242,745	234,091	231,966	232,990	239,528	239,758

TABLE 38.—Stocks of crude petroleum in the United States by classification and location, by month, 1960

(Thousand barrels)

Classification and location	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	237	267	221	322	279	255	273	266	243	196	268	308	196
Arkansas	516	516	473	491	502	432	426	527	400	406	373	445	390
California, Oregon, Washington	14,844	14,291	14,851	14,817	14,962	15,505	15,399	13,354	13,611	13,928	14,579	13,707	13,603
Colorado	139	169	230	191	316	267	283	267	248	291	195	257	186
Florida, Georgia, South Carolina, Virginia	808	663	788	842	837	873	768	693	710	867	757	633	815
Hawaii										236	372	674	950
Illinois	3,842	3,784	3,787	3,814	3,413	4,125	4,048	3,423	3,673	3,500	2,850	3,073	3,215
Indiana	1,949	2,124	1,951	1,926	1,904	1,746	1,789	1,836	1,810	1,865	2,076	1,832	1,687
Kansas	1,563	1,480	1,432	1,388	1,807	1,781	1,611	1,509	1,508	1,379	1,675	1,679	1,585
Kentucky, Tennessee	1,434	1,309	1,483	1,248	1,290	1,494	1,320	1,375	1,108	1,364	895	1,457	1,340
Louisiana	4,636	4,143	4,658	5,112	4,989	4,149	4,112	4,177	4,183	4,055	3,911	4,775	4,976
Maryland	578	713	851	827	648	671	905	678	386	647	508	346	314
Massachusetts, Delaware, Rhode Island	1,606	1,570	1,511	1,809	1,710	2,413	2,274	1,745	2,085	1,971	1,464	1,913	1,404
Michigan	866	781	832	806	834	873	954	1,023	925	860	905	949	996
Minnesota, Wisconsin	1,317	1,108	1,208	1,191	1,359	1,364	1,242	679	649	683	659	936	777
Mississippi	66	100	147	151	114	119	130	132	185	161	118	149	156
Missouri	463	470	489	454	387	348	263	214	255	240	256	226	244
Montana	622	587	642	619	625	690	798	644	643	598	748	504	653
Nebraska	46	37	49	42	59	58	56	57	61	62	30	41	51
New Jersey	5,386	5,604	5,204	5,041	6,337	5,028	6,258	5,797	5,937	5,668	5,117	5,885	5,549
New Mexico	228	247	241	227	208	184	214	189	199	194	250	233	152
New York	624	335	434	493	679	458	664	370	358	609	287	330	509
North Dakota	380	356	372	364	281	182	179	238	261	268	291	310	340
Ohio	1,413	1,565	1,634	1,619	1,626	1,920	1,841	1,877	1,728	1,689	1,691	1,621	1,250
Oklahoma	2,786	2,799	2,683	3,161	3,640	3,193	3,311	3,134	2,630	2,456	2,346	2,627	2,522
Pennsylvania	6,734	7,149	6,965	6,406	9,784	8,895	7,918	8,298	7,543	7,584	7,339	7,635	6,886
Texas	14,942	15,486	17,416	17,191	17,351	15,889	15,924	14,983	14,002	14,708	13,633	13,961	14,646
Utah	383	398	364	450	423	420	610	521	350	417	439	400	413
West Virginia	71	41	57	57	61	51	47	51	55	51	51	47	43
Wyoming	826	803	706	697	744	722	815	744	639	515	558	645	602
Total at refineries	69,305	68,895	71,679	71,756	77,169	74,105	74,432	68,801	66,385	67,468	64,641	67,598	66,450

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TABLE 38.—Stocks of crude petroleum in the United States by classification and location, by month, 1960—Continued

(Thousand barrels)

Classification and location	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	242	275	300	170	284	158	197	314	221	41	45	38	18
Alaska						3	15	9	17	23	102	142	91
Arkansas	1,108	1,260	1,195	1,153	1,067	1,052	984	937	941	931	932	884	845
California, Arizona	14,861	14,431	15,137	14,476	14,258	13,346	13,760	13,075	12,567	12,490	11,969	12,392	11,830
Colorado	1,425	1,217	1,219	1,268	1,451	1,347	1,323	1,240	1,167	1,165	1,211	1,282	1,216
Florida, New Jersey	83	571	118	715	282	131	304	201	100	232	120	23	293
Illinois	11,302	10,944	11,085	10,781	11,506	11,826	12,148	11,068	10,910	10,384	10,574	10,459	10,672
Indiana	2,570	2,574	2,625	2,703	2,843	3,149	3,276	3,287	2,886	2,648	2,690	2,658	2,578
Iowa, Missouri	6,347	6,308	6,478	6,730	6,774	6,551	6,638	6,541	6,393	6,262	6,277	6,064	6,128
Kansas	8,434	8,234	8,638	8,743	9,225	9,794	9,389	8,567	7,622	7,704	8,335	9,111	8,977
Kentucky, Tennessee	2,182	2,160	2,075	2,199	2,084	2,075	2,023	1,828	1,801	1,656	1,740	1,585	1,514
Louisiana	7,279	7,369	7,719	7,301	7,620	6,995	7,029	6,852	6,814	7,119	7,042	6,956	7,697
Michigan	898	880	838	890	890	942	999	971	935	901	1,199	990	988
Minnesota								566	648	546	481	569	498
Mississippi	1,508	1,292	1,428	1,427	1,370	1,449	1,395	1,254	1,267	1,149	1,035	1,278	1,194
Montana	890	1,012	1,050	1,226	1,178	1,125	1,052	902	846	886	890	935	987
Nebraska	1,565	1,550	1,574	1,589	1,615	1,663	1,712	1,508	1,348	1,365	1,433	1,406	1,508
New Mexico	2,205	2,162	2,017	1,787	2,051	1,840	1,865	1,722	1,825	1,926	2,005	2,408	2,280
New York	212	189	205	190	195	190	171	157	172	146	199	177	175
North Dakota	237	246	328	301	261	256	248	228	256	258	257	245	326
Ohio	5,153	4,770	4,602	4,515	4,708	4,761	4,959	5,329	4,920	4,445	4,373	4,516	4,647
Oklahoma	16,836	14,490	15,297	16,405	15,965	16,760	16,507	15,680	13,325	12,930	14,227	14,020	14,549
Pennsylvania	1,669	1,424	1,186	1,137	1,129	1,169	1,113	1,220	1,212	1,238	1,266	1,170	954
Texas	69,923	68,337	68,543	71,499	70,478	68,052	64,996	60,607	60,881	59,740	61,040	62,816	63,399
Utah	529	518	456	529	619	534	534	468	483	544	546	502	595
West Virginia	403	386	375	349	394	411	458	438	464	465	433	444	422
Wyoming	9,286	9,079	8,855	8,739	8,313	9,393	8,750	8,005	7,311	6,947	7,229	8,186	8,467
Total pipeline and tank-farm stocks	167,147	161,678	163,338	166,822	166,560	164,972	161,845	152,974	147,332	144,141	147,650	151,256	152,848
Lease stocks	20,677	21,633	22,011	22,345	22,449	22,235	21,024	20,970	20,374	20,357	20,699	20,674	20,502
Grand total: 1960	257,129	252,206	257,028	260,923	266,178	261,312	257,301	242,745	234,091	231,966	232,990	239,528	239,800
1959	262,730	258,108	260,040	254,940	257,564	264,525	272,505	264,994	253,091	250,996	257,487	255,953	257,129

VALUES AND PRICE

The average value of crude oil at the well in 1960 was $2.88 per barrel—2 cents below the 1959 values. The total value of crude oil at the well was 7,419 million dollars.

With few exceptions, posted prices on crude oil remained steady all during 1960. Pennsylvania-grade crudes in the Bradford and Allegheny group increased 40 cents per barrel, and other Pennsylvania-grade crudes increased 30 cents per barrel. The posted price of Indiana-Illinois Basin and Western Kentucky crude oils were reduced 15 cents per barrel in June, but in August the Indiana-Illinois Basin crude price was restored to the January 1 level of $3.00, and the posted price on Western Kentucky crude was increased 20 cents per barrel to $3.05—5 cents above the January 1 price.

TABLE 39.—Value of crude petroleum at wells in the United States, by States

State	1959		1960 [1]	
	Total value at wells (thousand dollars)	Average value per barrel	Total value at wells (thousand dollars)	Average value per barrel
Alaska	295	$1.58	1,228	$2.20
Arkansas	72,931	2.77	80,200	2.77
California	787,812	2.55	748,716	2.46
Colorado	134,676	2.90	136,779	2.90
Illinois	229,414	2.99	233,366	2.96
Indiana	34,315	2.97	34,075	2.94
Kansas	347,870	2.91	329,020	2.90
Kentucky	76,634	2.81	60,260	2.85
Louisiana:				
Gulf Coast	1,001,979	3.16	1,091,574	3.14
Northern	143,590	3.15	146,249	3.13
Total Louisiana	1,145,569	3.16	1,237,823	3.14
Michigan	30,691	2.94	45,585	2.91
Mississippi	140,921	2.84	146,648	2.83
Montana	76,434	2.56	72,878	2.41
Nebraska	65,897	2.88	70,108	2.87
New Mexico:				
Southeastern	260,467	2.87	262,703	2.87
Northwestern	40,927	2.74	44,788	2.73
Total New Mexico	301,394	2.85	307,491	2.85
New York	8,353	4.24	8,357	4.64
North Dakota	49,907	2.80	59,495	2.71
Ohio	17,157	2.87	14,731	2.97
Oklahoma	578,423	2.92	561,481	2.92
Pennsylvania	25,872	4.20	28,474	4.55
Texas: [2]				
Gulf Coast	602,070	3.29	546,900	3.25
East Texas proper	171,811	3.20	154,932	3.16
West Texas	1,251,361	2.85	1,200,409	2.85
Other districts	867,904	2.93	864,731	2.93
Total Texas	2,893,146	2.98	2,766,972	2.96
Utah	114,283	2.86	103,021	2.74
West Virginia	7,862	3.60	9,434	4.07
Wyoming	315,125	2.50	340,158	2.51
Other States [3]	18,355	2.94	23,082	2.85
Total United States	7,473,336	2.90	7,419,382	2.88

[1] Preliminary figures.
[2] Texas Railroad Commission divisions.
[3] Alabama, Arizona, Florida, Missouri, Nevada, South Dakota, Tennessee, Virginia and Washington.

TABLE 40.—Posted price per barrel of petroleum at wells in the United States in 1960, by grade, with date of change [1]

Date	Pennsylvania Grade		Corning Grade	Western Kentucky	Indiana-Illinois Basin	Cold-water, Mich.	Oklahoma-Kansas	
	Bradford and Allegheny districts	In southwest Pennsylvania					34°–34.9°	36°–36.9°
Jan. 1	$4.40	$3.95	$2.72	$3.00	$3.00	$3.10	$2.91	$2.97
Jan. 11	4.55	4.10						
Apr. 26	4.70	4.25						
June 13				2.85				
June 17					2.85			
Aug. 1	4.80							
Aug. 22					3.00			
Aug. 29				3.05				

Date	Panhandle Texas (Carson, Gray, Hutchinson, and Wheeler Counties)	West Texas, 30°–30.9° (sweet)	Lea County, N. Mex. 30°–30.9° (sour)	South Texas Mirando, 24°–24.9°	East Texas	Gulf Coast			
						Conroe, Tex.	Texas		Louisiana, 30°–30.9°
							30°–30.9°	20°–20.9°	
Jan. 1	$2.80	$2.81	$2.47	$3.23	$3.25	$3.53	$3.20	$3.00	$3.10

Date	Rodessa, La., 36°–36.9°	Smackover, Ark.	Elk Basin, Wyo., 30°–30.9°	California			
				Coalinga, 32°–37.9°	Kettleman Hills, 37°–37.9°	Midway-Sunset, 19°–19.9°	Wilmington, 24°–24.9°
Jan. 1	$3.07	$2.68	$2.63	$2.96	$3.21	$2.16	$2.58
Sept. 24						2.19	

[1] Source: Platt's Oil Price Handbook.

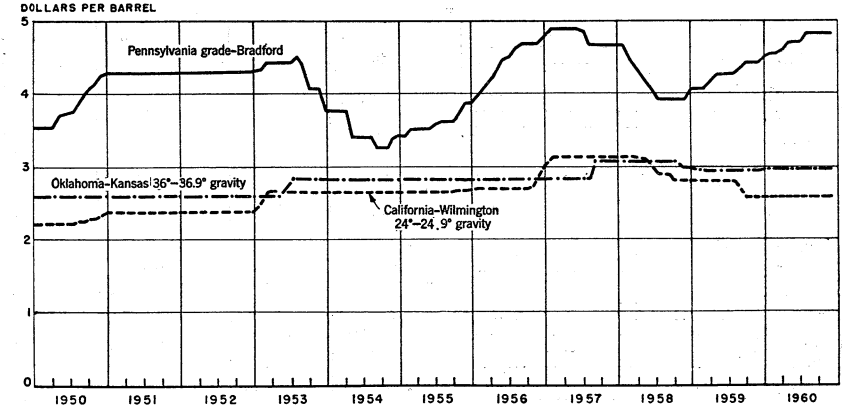

FIGURE 4.—Posted prices of selected grades of crude petroleum in the United States, 1950–60, by months.

REFINED PRODUCTS

GENERAL REVIEW

Petroleum is consumed in many finished products that must be considered individually. Competition with other fuels and economic and climatic conditions affect the consumption of these products.

Gasoline is consumed principally in highway transport, aviation, and mechanized farming. The demand for kerosine (a product defined as meeting lamp-oil specifications for color and flashpoint) has changed drastically within the past few years. This product was losing sales to electricity and liquefied petroleum, especially in rural areas, but the ability of the commercial jet aircraft to use straight kerosine as fuel has opened a vast new market. Distillate fuel oil, including light diesel oils, is used for space heating and for diesel locomotive fuel and has nearly replaced residual fuel oil and coal in railroad use. Residual fuel oil usually sells for less than crude oil at the refineries, and competes directly with natural gas and coal for heavy fuel uses. As it cannot be moved by pipeline, its distribution depends on cheap water transport and limited tankcar movement. Therefore, it cannot normally compete with coal in coal-producing areas. Liquefied gases, in competition with kerosine and light distillate fuel oil in domestic use, are gaining in importance as fuel oil in domestic use, are gaining in importance as fuel in internal combustion engines and as the initial raw material in synthesizing many petrochemicals. Jet fuels, a blend of gasoline, kerosine, and distillate fuel oils, have replaced gasoline in military combat aircraft.

The total demand for all oils in 1960 increases 2.2 percent. Domestic demand increased 2.4 percent and exports were down 4.1 percent.

Exports of petroleum in 1960 averaged 202,000 barrels daily, 9,000 barrels per day less than in 1959. Exports of all the major products declined for the year, but increased quantities of lubricating oils, wax, coke and liquefied gases were exported during 1960.

Domestic demand averaged 9,677,000 barrels daily in 1960, compared with 9,451,000 barrels daily in 1959.

Military purchases from domestic sources averaged 460,000 barrels daily in 1960, the same as in 1959.

The new supply of refined products comprises the refinery output from crude oil, the production of natural-gas liquids, a small quantity of motor benzol derived from coal, and imports of refined products from other countries. Crude runs to stills, the production of natural-gas liquids, and imports were less than demand in 1960 and resulted in a stock decrease of 30.2 million barrels.

The yield of gasoline from crude oil increased from 44.9 percent in 1959 to 45.2 percent in 1960. Kerosine yield was 0.8 percent higher for the year, reflecting the increased demand for this product as fuel in commercial jet planes.

The wholesale-price index for crude petroleum and petroleum products was 117.5 in 1960 compared with 116.6 in 1959. The average wholesale price of the four principal products, gasoline, kerosine, distillate fuel oil, and residual fuel oil, declined 0.07 cent per gallon in 1960, from 9.22 cents to 9.15 cents per gallon.

The average price of regular-grade gasoline at refineries in Oklahoma for the year 1960 was 12.47 cents per gallon. The average monthly price increased from 11.15 cents in January to 12.00 cents in April, dropped to 11.60 cents in May, increased each month through September and then remained at 13.38 cents per gallon for the rest of the year. The average prices for kerosine, distillate fuel oil, and residual fuel oil at Oklahoma refineries for 1960 were all lower than for 1959. The kerosine price declined from 10.29 cents in 1959 to 10.11 cents in 1960, distillate fuel oil was down 0.34 cent to 8.78 cents per gallon, and the residual fuel oil price of $1.89 per barrel was 8 cents per barrel below the 1959 average.

TABLE 41.—Salient statistics of the major refined petroleum products in the United States

(Thousand barrels)

	1956	1957	1958	1959 [1]	1959 [2]	1960 [2 3]
Gasoline (finished, unfinished and natural):						
Production	1,427,807	1,438,140	1,439,511	1,488,860	1,488,860	1,528,246
Imports	1,682	2,906	13,773	13,358	13,358	9,790
Exports	35,572	38,588	27,403	20,886	16,743	13,468
Stocks, end of year	187,271	196,776	186,760	187,115	187,613	194,774
Domestic demand	1,373,079	1,392,953	1,435,897	1,481,221	1,485,277	1,517,407
Kerosine:						
Production	123,480	108,929	110,008	110,662	110,662	135,772
Transfers from gasoline plants [4]	1,781	1,780	1,294	868	868	1,070
Imports	10	30	34	114	114	86
Exports	3,297	5,258	1,217	1,030	944	687
Stocks, end of year	31,420	29,200	26,040	26,817	26,856	31,445
Domestic demand	117,324	107,701	113,279	109,846	109,919	[5] 132,519
Distillate fuel oil:						
Production	665,687	668,573	631,405	678,938	678,938	667,050
Transfers from gasoline plants [4]	818	866	773	703	703	1,897
Transfers from crude	1,375	1,305	950	970	970	1,001
Imports	5,159	8,566	14,892	17,658	17,658	13,133
Exports	34,535	47,752	18,942	13,355	12,734	9,814
Stocks, end of year	133,981	149,449	125,101	151,030	151,164	138,455
Domestic demand	615,856	616,090	653,426	659,392	659,983	685,976
Residual fuel oil:						
Production	426,699	415,656	363,358	347,900	347,900	332,147
Transfers from crude	6,439	13,884	10,965	7,386	7,386	3,948
Imports	162,869	173,299	182,036	222,571	222,571	234,145
Exports	27,877	38,570	25,743	26,040	20,815	18,541
Stocks, end of year	44,491	59,959	59,508	53,261	53,501	44,870
Domestic demand	562,813	548,801	531,067	558,116	563,464	560,330
Jet fuel:						
Production	66,443	63,322	73,676	92,933	92,933	88,248
From gasoline	51,472	46,007	53,195	64,225	64,225	65,255
From kerosine	11,124	12,572	14,516	19,555	19,555	14,004
From distillate	3,847	4,743	5,965	9,153	9,153	8,989
Transfers from gasoline plants [4]			1,024	758	758	861
Imports	7,763	9,185	20,810	13,572	13,572	12,638
Exports	186	119	211	389	173	113
Stocks, end of year	5,322	4,749	5,871	8,741	8,758	6,456
Domestic demand	72,155	72,961	94,177	104,020	104,228	103,069
Lubricants:						
Production	59,211	55,723	51,298	56,111	56,111	59,389
Imports						22
Exports:						
Grease	428	428	349	392	392	394
Oil	13,431	13,398	12,654	13,684	13,580	15,426
Stocks, end of year	10,182	10,864	9,687	8,950	8,950	9,874
Domestic demand	43,933	41,215	39,472	42,774	42,878	42,667
War (1 barrel=280 pounds):						
Production	5,367	5,461	5,252	5,630	5,630	5,896
Imports			5	21	21	6
Exports	920	1,023	911	1,034	1,031	1,333
Stocks, end of year	658	666	712	774	774	905
Domestic demand	4,340	4,430	4,300	4,555	4,558	4,438

See footnotes at end of table.

TABLE 41.—Salient statistics of the major refined petroleum products in the United States—Continued

(Thousand barrels)

	1956	1957	1958	1959 [1]	1959 [2]	1960 [2 3]
Coke (5 barrels=1 short ton):						
Production	31,095	33,466	37,808	41,117	41,117	60,010
Exports	6,423	5,225	4,405	4,680	4,680	6,856
Stocks, end of year	1,319	2,534	4,818	5,705	5,705	4,387
Domestic demand	24,877	27,026	31,119	35,550	35,550	54,472
Asphalt (5.5 barrels=1 short ton):						
Production	90,636	85,683	89,380	97,643	97,643	98,671
Imports	3,606	6,391	7,478	6,869	6,869	6,122
Exports	1,513	1,788	1,364	1,034	935	921
Stocks, end of year	9,150	10,463	9,757	10,948	10,948	10,142
Domestic demand	91,347	88,973	96,200	102,287	102,386	104,678
Road oil:						
Production	8,027	7,209	5,925	6,493	6,493	5,970
Stocks, end of year	501	587	417	653	653	743
Domestic demand	8,086	7,123	6,095	6,257	6,257	5,880
Still gas:						
Production	121,993	125,720	125,951	126,958	126,958	129,480
Liquefied gases (incl. ethane):						
Production [6]	51,962	53,437	57,623	68,692	68,692	77,578
Transfers of liquefied gas [7] from natural gasoline plants	114,208	117,029	123,194	146,415	146,415	150,535
Imports	[5]	[5]	[5]	[8]	[8]	1,631
Exports	4,274	4,526	2,827	2,252	2,252	2,988
Stocks, end of year	1,393	1,913	2,207	2,520	2,520	3,623
Domestic demand	161,535	165,420	177,696	212,542	212,542	225,653
Miscellaneous:						
Production	12,493	15,816	18,718	21,854	21,854	24,358
Transfers from gasoline plants [4]	2,347	1,664	1,460	1,449	1,449	1,494
Imports				4	4	47
Exports	306	269	266	273	262	257
Stocks, end of year	1,476	1,811	2,409	2,281	2,281	2,715
Domestic demand	14,385	16,876	19,314	23,162	23,173	25,208
Other unfinished oils:						
Rerun (net)	4,008	−1,355	32,493	25,868	25,868	22,094
Transfers of other products from natural gasoline plants	[4]	[4]	[4]	[4]	[4]	[4]
Imports	2,669	957	33,554	23,072	23,072	16,478
Stocks, end of year	66,654	68,966	70,027	67,231	67,231	61,615
Shortage	(15,704)	(15,159)	(23,192)	(31,509)	(31,509)	(53,282)

[1] Including Alaska.
[2] Including Alaska and Hawaii.
[3] Preliminary figures.
[4] Production of natural-gasoline plants shown as direct "transfers" and omitted from the input and output at refineries.
[5] Includes jet fuel used in commercial aircraft: PAD districts I-IV, 23,491; PAD district V, 9,668.
[6] Liquefied refinery gases (LR gases).
[7] Liquefied petroleum gases (LP gases).
[8] Included with imports of gasoline.

TABLE 42.—Input and output of petroleum products at refineries in the United States

(Thousand barrels)

	1956	1957	1958	1959	1960 [1]
Input:					
Crude petroleum:					
Domestic	2,563,655	2,529,672	2,444,229	[2] 2,565,504	[2] 2,581,568
Foreign	341,451	360,764	345,175	352,157	370,966
Total crude petroleum	2,905,106	2,890,436	2,789,404	[2] 2,917,661	[2] 2,952,534
Natural-gas liquids	135,062	150,090	137,269	153,323	166,793
Total input	3,040,168	3,040,526	2,926,673	3,070,984	3,119,327
Output:					
Gasoline	1,396,787	1,415,335	1,411,956	1,473,430	1,510,134
Kerosine [3]	123,480	108,929	110,008	110,662	135,772
Distillate fuel oil [3]	665,687	668,573	631,405	678,938	667,050
Residual fuel oil	426,699	415,656	363,358	347,900	332,147
Jet fuel [3]	66,443	63,322	73,676	92,933	88,248
Lubricants	59,211	55,723	51,298	56,111	59,389
Wax [4]	5,367	5,461	5,252	5,630	5,896
Coke [4]	31,095	33,466	37,808	41,117	60,010
Asphalt [4]	90,636	85,683	89,380	97,643	98,671
Road oil	8,027	7,209	5,925	6,493	5,970
Still gas	121,993	125,720	125,951	126,958	129,480
Liquefied gases	51,962	53,437	57,623	68,692	77,578
Other finished products [3]	12,493	15,816	18,718	21,854	24,358
Other unfinished oils (net)	[5] −4,008	1,355	[5] −32,493	[5] −25,868	[5] −22,094
Shortage (or overage) [6]	−15,704	−15,159	−23,192	−31,509	−53,282
Total output	3,040,168	3,040,526	2,926,673	3,070,984	3,119,327

[1] Preliminary figures.
[2] New basis: Includes crude oil produced in Alaska as follows: 1959: 187,000 barrels; 1960: 558,000 barrels. On the old basis, this would be foreign crude oil. There was no production of crude oil in Hawaii.
[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 asphalt to the short ton.
[5] Negative quantity: represents net excess of unfinished oils rerun over unfinished oil produced.
[6] Includes losses or gains in volume during processing.

TABLE 43.—Percentage yields of refined petroleum products from crude oil in the United States,[1]

Product	1951	1952 [2]	1953	1954	1955	1956	1957	1958	1959	1960 [3]
Finished products:										
Gasoline	42.4	42.4	43.9	43.8	44.0	43.4	43.8	45.2	44.9	45.2
Kerosine	5.7	5.3	4.8	4.8	4.3	4.2	3.8	3.9	3.8	4.6
Distillate fuel oil	20.0	21.2	20.7	21.3	22.0	22.9	23.1	22.4	23.1	22.4
Residual fuel oil	19.7	18.5	17.6	16.4	15.3	14.7	14.4	12.9	11.8	11.2
Jet fuel	(4)	.8	1.4	1.8	2.1	2.3	2.2	2.6	3.2	3.0
Lubricating oil	2.6	2.3	2.1	2.1	2.0	2.0	1.9	1.8	1.9	2.0
Wax	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Coke	.8	.7	.8	1.0	1.0	1.1	1.2	1.3	1.4	2.0
Asphalt	2.8	2.9	2.8	2.9	3.0	3.1	3.0	3.2	3.3	3.3
Road oil	.3	.3	.3	.3	.3	.3	.2	.2	.2	.2
Still gas	4.1	3.9	4.0	4.0	4.3	4.2	4.3	4.4	4.3	4.4
Liquefied gases	(5)	1.3	1.3	1.3	1.6	1.8	1.9	2.0	2.3	2.6
Other finished products	1.7	.3	.4	.4	.4	.4	.5	.7	.7	.8
Shortage	−.3	−.1	−.3	−.3	−.5	−.6	−.5	−.8	−1.1	−1.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Other unfinished oils added to crude in computing yields.
[2] Yields computed on the 1953 basis to show jet fuel separately.
[3] Preliminary figures.
[4] For 1951, jet fuel was included in statistics of gasoline, kerosine, and distillate fuel oil.
[5] For 1951, statistics on liquefied gases were included in "Other" finished products.

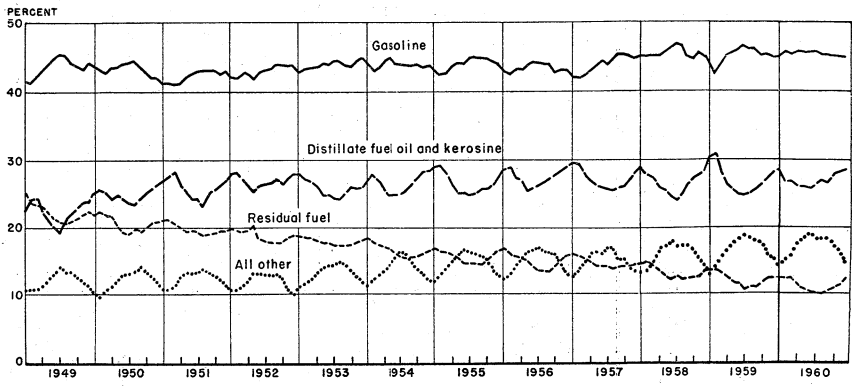

FIGURE 5.—Yields of principal products from crude runs to stills in the United States, 1949–60, by months.

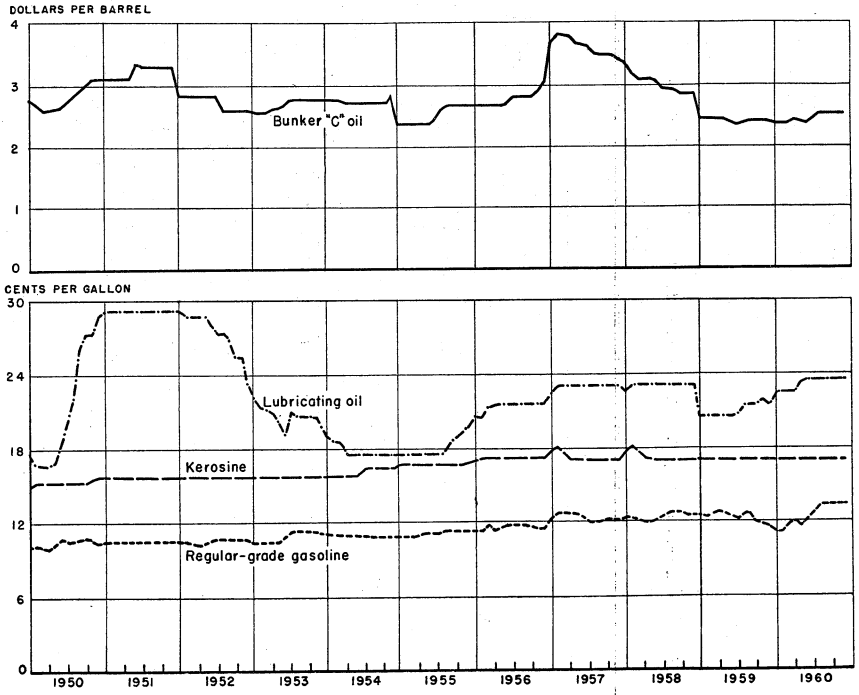

FIGURE 6.—Prices of Bunker "C" oil at New York Harbor, bright stock at Oklahoma refineries, tank-wagon kerosine at Chicago, and regular-grade gasoline at refineries in Oklahoma, 1950–60, by months.

TABLE 44.—Stocks of refined petroleum products in the United States at end of month, 1959–60

(Thousand barrels)

Product	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1959:[1]												
Gasoline [2]	199,075	210,367	218,612	210,395	205,640	196,078	185,294	181,921	174,128	174,277	181,016	187,115
Kerosine	21,090	19,725	18,688	21,003	24,597	27,364	28,328	21,221	31,562	32,396	30,701	26,817
Distillate fuel oil	96,849	84,071	80,662	86,222	102,863	120,962	140,388	164,134	174,148	181,840	171,114	151,030
Residual fuel oil	55,214	54,178	57,210	53,327	55,821	55,479	54,509	57,855	59,429	59,506	58,587	53,261
Jet fuel	6,257	6,499	7,879	7,842	7,960	7,995	7,995	8,433	7,937	8,044	8,435	8,741
Lubricating oil	9,494	9,728	9,407	9,170	8,912	8,396	8,402	8,274	8,378	8,237	8,792	8,950
Wax	714	683	684	715	741	721	701	711	709	697	720	774
Coke	4,973	5,207	5,471	5,469	5,657	5,892	6,015	5,927	5,816	5,482	5,569	5,705
Asphalt	11,252	12,726	14,270	15,235	15,351	14,228	12,853	11,409	9,986	9,579	10,224	10,948
Road oil	414	540	748	1,057	1,317	1,201	1,024	821	665	613	594	653
Liquefied refinery gases	1,846	1,948	2,090	2,286	2,510	2,615	2,803	2,863	2,966	2,991	2,741	2,520
Miscellaneous	2,339	2,212	2,509	2,349	2,469	2,282	2,303	2,369	2,196	2,285	2,336	2,281
Other unfinished oils	68,757	66,187	66,363	70,600	73,683	70,875	72,274	71,621	70,980	70,538	70,611	67,231
Total 1959	478,274	474,071	484,593	485,670	507,521	514,088	522,889	537,559	548,900	556,485	551,440	526,026
1959:[3]												
Gasoline [2]	199,674	210,848	219,105	210,951	206,175	196,562	185,743	182,405	174,580	174,823	181,556	187,613
Kerosine	21,124	19,752	18,720	21,038	24,632	27,406	28,365	31,256	31,598	32,434	30,744	26,856
Distillate fuel oil	96,974	84,179	80,767	86,343	102,964	121,070	140,480	164,228	174,255	181,963	171,252	151,164
Residual fuel oil	55,481	54,457	57,496	53,694	56,099	55,652	54,734	58,115	59,689	59,779	58,830	53,501
Jet fuel	6,266	6,508	7,889	7,851	7,969	8,004	8,006	8,444	7,950	8,071	8,455	8,758
Lubricating oil	9,494	9,728	9,407	9,170	8,912	8,396	8,402	8,274	8,378	8,237	8,792	8,950
Wax	714	683	684	715	741	721	701	711	709	697	720	774
Coke	4,973	5,207	5,471	5,469	5,657	5,892	6,015	5,927	5,816	5,482	5,569	5,705
Asphalt	11,252	12,726	14,270	15,235	15,351	14,228	12,853	11,409	9,986	9,579	10,224	10,948
Road oil	414	540	748	1,057	1,317	1,201	1,024	821	665	613	594	653
Liquefied refinery gases	1,846	1,948	2,090	2,286	2,510	2,615	2,803	2,863	2,966	2,991	2,741	2,520
Miscellaneous	2,339	2,212	2,509	2,349	2,469	2,282	2,303	2,369	2,196	2,285	2,336	2,281
Other unfinished oils	68,757	66,187	66,363	70,600	73,683	70,875	72,274	71,621	70,980	70,538	70,611	67,231
Total 1959	479,308	474,975	485,519	486,758	508,479	514,904	523,703	548,443	549,768	557,492	552,424	526,954

1960:[3] [4]												
Gasoline [2]	205,982	217,139	222,691	216,100	210,509	198,452	196,021	190,322	189,645	189,674	188,726	194,774
Kerosine	26,510	23,020	18,440	20,547	24,217	27,354	30,499	33,379	35,408	36,977	36,722	31,445
Distillate fuel oil	125,924	105,015	73,948	81,755	95,461	109,174	131,044	152,158	168,235	180,071	173,913	138,455
Residual fuel oil	49,306	45,775	40,503	39,285	39,628	41,074	43,848	47,177	50,136	50,003	49,525	44,870
Jet fuel	6,846	7,041	6,386	6,556	6,810	6,753	6,892	7,343	6,431	6,034	6,020	6,456
Lubricating oil	9,365	9,588	9,637	9,665	9,404	9,068	9,032	8,942	9,149	9,194	9,463	9,874
Wax	789	799	782	782	814	775	800	820	768	878	892	905
Coke	5,813	5,829	5,954	5,981	5,888	5,834	5,995	6,010	6,039	5,968	5,869	4,387
Asphalt	12,838	14,120	15,266	16,830	17,037	15,760	14,259	11,284	9,110	8,141	8,593	10,142
Road oil	661	785	878	1,166	1,425	1,435	1,338	956	701	641	730	743
Liquefied refinery gases	2,213	2,189	2,097	2,325	2,544	2,781	3,129	3,318	3,473	3,486	3,651	3,623
Miscellaneous	2,579	2,114	2,038	1,980	2,188	2,021	2,403	2,115	2,122	2,133	2,582	2,715
Other unfinished oils	67,427	69,039	67,283	68,988	73,023	72,352	73,261	71,137	67,801	69,121	66,548	61,615
Total 1960	516,253	502,453	465,903	471,960	488,948	492,833	518,521	534,961	549,018	562,321	553,234	510,004

[1] Includes stocks in Alaska.
[2] Includes unfinished gasoline.
[3] Includes stocks located at bulk terminals in Alaska and Hawaii; for details see tables 4 and 5, respectively.
[4] Preliminary figures.

TABLE 45.—Input and output of petroleum products at refineries in the United States, 1959–60, by months

(Thousand barrels)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959:													
Input:													
Crude petroleum	255,124	227,562	254,422	235,982	244,789	239,607	244,316	250,508	236,326	237,066	239,517	252,442	2,917,661
Natural-gas liquids	11,941	11,114	12,884	11,882	12,338	12,602	12,989	13,262	12,735	13,733	13,644	14,199	153,323
Total input	267,065	238,676	267,306	247,864	257,127	252,209	257,305	263,770	249,061	250,799	253,161	266,641	3,070,984
Output:													
Gasoline [1]	125,782	110,291	124,944	116,551	122,782	123,876	126,352	129,144	122,167	120,910	121,856	128,775	1,473,430
Kerosine [2]	12,978	11,686	9,484	8,269	7,574	7,314	6,967	7,264	8,305	8,886	9,992	11,943	110,662
Distillate fuel oil [2]	66,124	60,458	61,610	52,181	54,295	53,745	53,279	55,921	52,355	53,816	55,044	60,110	678,938
Residual fuel oil	34,622	31,493	32,569	28,104	27,874	27,448	25,514	27,393	25,581	26,949	29,147	31,206	347,900
Jet fuel [2]	6,112	6,218	7,958	7,154	7,060	7,331	7,974	9,044	8,199	8,788	8,186	8,909	92,933
Lubricating oil	4,360	3,941	4,652	4,751	4,754	4,615	4,958	4,593	4,867	4,934	4,718	4,968	56,111
Wax [3]	499	408	466	506	473	466	430	446	469	454	465	548	5,630
Coke [2]	3,413	3,182	3,679	3,083	3,466	3,620	3,314	3,349	3,425	3,415	3,360	3,811	41,117
Asphalt [3]	4,510	4,379	6,769	7,674	9,281	10,582	11,515	11,406	10,655	9,424	6,626	4,822	97,643
Road oil	62	170	310	523	752	987	1,324	1,044	623	334	164	200	6,493
Still gas	10,256	9,808	10,719	9,915	11,313	11,213	11,618	11,424	10,360	10,142	9,610	10,580	126,958
Liquefied refinery gases	5,228	5,430	6,210	5,931	5,864	5,731	5,752	5,674	5,460	5,634	5,666	6,112	68,692
Miscellaneous [2]	1,818	1,415	1,759	1,782	2,052	1,947	2,009	1,637	1,780	1,812	1,910	1,933	21,854
Other unfinished oils (net)	(4) −5,951	(4) −8,365	(4) −1,694	3,539	2,065	(4) −4,419	(4) −625	(4) −2,040	(4) −1,883	(4) −1,521	(4) −720	(4) −4,254	(4) −25,868
Shortage or (overage)	(2,748)	(1,838)	(2,129)	(2,099)	(2,478)	(2,247)	(3,076)	(2,529)	(3,302)	(3,178)	(2,863)	(3,022)	(31,509)
Total output	267,065	238,676	267,306	247,864	257,127	252,209	257,305	263,770	249,061	250,799	253,161	266,641	3,070,984
1960: [5]													
Input:													
Crude petroleum	256,659	233,880	245,423	238,809	246,847	243,773	257,522	255,748	242,999	245,157	236,789	248,928	2,952,534
Natural-gas liquids	14,063	12,704	13,347	12,878	13,085	12,926	13,805	14,237	14,202	15,000	14,812	15,734	166,793
Total input	270,722	246,584	258,770	251,687	259,932	256,699	271,327	269,985	257,201	260,157	251,601	264,662	3,119,327

Output:													
Gasoline [1]	129,694	119,455	125,159	121,395	123,659	124,800	131,522	131,128	125,980	125,035	122,659	129,648	1,510,134
Kerosine [2]	13,547	10,408	11,353	9,745	9,853	9,759	11,164	11,397	10,776	11,993	12,401	13,376	135,772
Distillate fuel oil [2]	59,874	51,877	55,690	52,300	53,841	53,338	56,773	58,081	54,928	56,262	54,877	59,209	667,050
Residual fuel oil	32,452	28,938	31,065	26,410	26,072	25,297	26,265	26,125	25,779	25,755	27,116	30,873	332,147
Jet fuel [2]	7,250	7,314	7,272	7,437	7,338	7,894	7,528	7,796	6,961	6,898	7,291	7,269	88,248
Lubricating oil	4,895	4,614	5,027	5,052	4,953	4,921	5,232	4,689	4,944	4,907	5,094	5,061	59,389
Wax [3]	456	479	511	467	512	462	456	500	453	615	514	471	5,896
Coke [3]	3,839	3,531	3,993	4,047	4,146	5,210	5,662	6,252	5,829	5,765	5,726	6,010	60,010
Asphalt [3]	4,546	4,363	4,769	7,719	9,449	11,042	11,776	12,114	11,147	9,741	6,814	5,191	98,671
Road oil	74	212	152	516	690	842	1,190	943	515	324	245	267	5,970
Still gas	10,572	10,100	10,430	10,872	11,369	11,469	11,291	11,590	10,934	10,692	9,833	10,328	129,480
Liquefied refinery gases	6,260	6,277	6,990	6,591	6,307	6,604	6,747	6,716	6,229	5,997	6,128	6,732	77,578
Miscellaneous [2]	1,966	1,512	2,224	2,225	2,292	1,825	2,092	1,692	2,066	2,072	2,164	2,228	24,358
Other unfinished oils (net)	[4] −1,067	397	[4] −3,031	181	2,835	[4] −2,044	[4] −877	[4] −3,416	[4] −4,594	[4] −428	[4] −4,021	[4] −6,029	[4] −22,094
Shortage of (overage)	(3,636)	(2,893)	(2,834)	(3,270)	(3,384)	(4,720)	(5,494)	(5,622)	(4,746)	(5,471)	(5,240)	(5,972)	(53,282)
Total output	270,722	246,584	258,770	251,687	259,932	256,699	271,327	269,985	257,201	260,157	251,601	264,662	3,119,327

[1] Includes unfinished gasoline (net).

[2] Production at natural-gasoline 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.

[4] Negative quantity; represents net excess of unfinished oils rerun over unfinished oil produced.

[5] Preliminary figures.

TABLE 46.—Input and output of petroleum products at refineries in the United States, 1959–60, by districts

(Thousand barrels)

	East Coast	Appalachian No. 1	Appalachian No. 2	Indiana, Illinois, Kentucky, etc.	Minnesota, Wisconsin, etc.	Oklahoma, Kansas, etc.	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	Arkansas-Louisiana Inland, etc.	New Mexico	Rocky Mountain	West Coast	Total
1959:														
Input:														
Crude petroleum	408,618	34,977	37,440	535,707	38,022	264,586	104,012	673,746	257,714	32,091	8,804	106,038	415,906	2,917,661
Natural-gas liquids	2,238	----------	103	11,982	601	15,296	27,226	49,486	15,182	3,718	928	2,685	23,878	153,323
Total input	410,856	34,977	37,543	547,689	38,623	279,882	131,238	723,232	272,896	35,809	9,732	108,723	439,784	3,070,984
Output:														
Gasoline [1]	187,417	14,743	19,377	275,006	18,285	143,820	76,547	342,495	136,244	14,688	4,728	49,156	190,924	1,473,430
Kerosine [2]	11,765	1,367	2,083	25,342	1,829	4,993	2,965	35,238	20,602	1,518	145	1,196	1,619	110,662
Distillate fuel oil [2]	125,597	7,848	6,893	115,715	9,373	67,287	17,761	169,187	61,528	7,194	1,669	22,700	66,186	678,938
Residual fuel oil	61,657	3,440	4,589	62,311	4,831	9,200	7,714	57,891	18,018	2,211	892	12,512	102,634	347,900
Jet fuel [2]	3,104	205	124	7,098	435	15,454	12,212	17,093	8,616	716	1,210	6,758	19,908	92,933
Lubricating oil	7,754	3,301	506	4,502	----------	4,589	135	21,098	6,695	1,953	----------	209	5,369	56,111
Wax [3]	1,910	335	64	300	----------	628	41	1,120	626	----------	----------	68	538	5,630
Coke [5]	7,611	----------	351	11,698	1,373	5,438	424	3,840	2,763	1,073	----------	1,647	4,899	41,117
Asphalt [3]	20,329	1,231	2,576	17,512	1,208	10,036	5,347	7,076	3,934	4,749	510	6,833	16,302	97,643
Road oil	23	----------	----------	1,652	151	1,386	----------	16	10	18	----------	1,025	1,312	6,493
Still gas	16,648	1,813	1,984	25,821	1,224	10,568	5,203	24,767	7,468	1,215	187	4,543	25,517	126,958
Liquefied refinery gases	8,875	383	127	6,046	675	5,686	2,884	19,963	14,905	780	53	1,223	7,092	68,692
Miscellaneous [2]	3,356	523	27	1,901	65	1,210	688	5,752	3,289	58	30	416	4,539	21,854
Other unfinished oils (net)	[4] −39,189	[4] −376	[4] −287	[4] −545	[4] −49	577	[4] −1,640	24,602	[4] −3,447	[4] −785	2	338	[4] −5,069	[4] −25,868
Shortage or (overage)	(6,001)	164	(871)	(6,670)	(777)	(990)	957	(6,906)	(8,355)	421	306	(801)	(1,986)	(31,509)
Total output	410,856	34,977	37,543	547,689	38,623	279,882	131,238	723,232	272,896	35,809	9,732	108,723	439,784	3,070,984
1960: [6]														
Input:														
Crude petroleum	410,144	35,151	36,680	538,458	44,489	264,330	106,936	694,839	242,306	39,403	8,490	104,437	426,871	2,952,534
Natural-gas liquids	1,851	5	71	14,773	767	16,320	28,518	48,515	17,007	8,536	983	3,252	26,195	166,793
Total input	411,995	35,156	36,751	553,231	45,256	280,650	135,454	743,354	259,313	47,939	9,473	107,689	453,066	3,119,327

Output:														
Gasoline [1]	188,358	14,592	18,862	278,836	21,066	146,579	80,084	357,728	130,454	23,900	4,536	49,641	195,498	1,510,134
Kerosine [2]	12,893	1,288	1,907	27,143	1,958	5,155	3,392	44,455	22,172	2,078	120	1,169	12,042	135,772
Distillate fuel oil [2]	120,615	7,936	6,892	114,715	10,639	65,120	17,801	168,100	53,182	8,106	1,521	23,878	68,545	667,050
Residual fuel oil	55,686	3,844	4,485	60,369	6,532	8,486	7,417	51,212	16,784	2,403	881	11,505	102,543	332,147
Jet fuel [2]	3,064	94	400	7,362	779	16,372	12,712	14,748	8,315	885	1,368	5,322	16,827	88,248
Lubricating oil	8,642	3,366	486	4,861	----------	4,754	182	22,485	6,409	2,062	----------	324	5,818	59,389
Wax [3]	2,025	266	58	356	----------	678	57	1,253	607	----------	----------	82	514	5,896
Coke [3]	10,076	101	362	13,747	1,638	7,469	1,025	9,068	3,986	1,677	28	2,521	8,312	60,010
Asphalt [3]	21,550	1,250	2,434	18,825	1,340	10,393	4,756	7,782	4,442	4,252	488	7,017	14,142	98,671
Road oil	24	----------	----------	1,786	233	1,058	----------	12	29	13	----------	1,467	1,348	5,970
Still gas	16,159	1,763	2,050	26,380	1,531	10,959	5,643	26,113	7,528	2,259	223	4,139	24,733	129,480
Liquefied refinery gases	9,793	572	153	8,189	746	6,251	3,324	20,404	16,264	908	57	1,499	9,418	77,578
Miscellaneous [2]	3,803	600	28	1,167	62	1,026	697	8,722	3,130	328	3	313	4,479	24,358
Other unfinished oils (net)	[4] −31,928	[4] −331	[4] −413	[4] −421	[4] −99	[4] −1,316	[4] −1,946	25,359	[4] −3,948	[4] −581	4	164	[4] −6,638	[4] −22,094
Shortage or (overage)	(8,765)	(185)	(953)	(10,084)	(1,169)	(2,334)	310	(14,087)	(10,041)	(351)	244	(1,352)	(4,515)	(53,282)
Total output	411,995	35,156	36,751	553,231	45,256	280,650	135,454	743,354	259,313	47,939	9,473	107,689	453,066	3,119,327

[1] Includes unfinished gasoline (net).
[2] Production at natural gasoline plants shown as direct "transfers" and omitted from the input and output at refineries.
[3] Conversion factor :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.
[4] Negative quantity; represents net excess of unfinished oils rerun over unfinished oils produced.
[5] Preliminary figures.

REFINERY CAPACITY

The total crude oil capacity as of January 1, 1961 was 10,008,073 barrels daily, an increase in installed capacity for the year of 106,649 barrels daily. The capacity of the average refinery to process crude oil increased from 31,940 barrels daily in 1959 to 32,180 barrels per day in 1961. Additional crude oil capacity under construction at the beginning of 1961 totaled 36,500 barrels daily, the smallest capacity under construction reported since 1945.

TABLE 47.—Petroleum refinery capacity in the United States, January 1, 1956–61

	Number of refineries				Crude-oil throughput capacity (barrels per day)				
	Operating	Shutdown	Total	Building	Operating	Shutdown		Total	Building
						Operable	Inoperable		
1956	294	24	318	2	8,380,801	201,835	49,754	8,632,390	267,000
1957	298	21	319	3	8,808,841	262,856	51,977	9,123,674	256,350
1958	288	30	318	2	8,939,907	418,400	49,400	9,407,707	185,265
1959	291	22	313	----	9,450,741	310,705	58,400	9,819,846	108,400
1960	290	20	310	2	9,543,329	299,295	58,800	9,901,424	70,947
1961	289	22	311	----	9,627,685	368,888	11,500	10,008,073	36,500

AVIATION GASOLINE

The demand for aviation-grade gasoline is declining rapidly as each year more commercial airlines are replacing their propeller-type aircraft with jet engine craft. Total demand for aviation gasoline declined 22.0 percent in 1960 (from 89.6 million barrels in 1959 to 69.8 million in 1960). Domestic demand in 1960 was 22.7 percent lower, and exports were 17.9 percent below the 1959 total. Refineries reported deliveries to the military of 68,000 barrels per day in 1960 compared with 75,000 barrels in 1959.

Jet type fuels are not included in aviation gasoline. The fuel used in commercial jet planes (mostly straight kerosine) is reported in another section of this chapter under kerosine and only that used by the military is reported under the section on jet fuel.

GASOLINE

The total demand for gasoline in 1960 averaged 4,183,000 barrels daily, a 1.9 percent increase over 1959. Domestic demand for the year was 4,146,000 barrels daily, and exports averaged 37,000 barrels daily. All figures for aviation gasoline and naphthas are included under total gasoline.

Production.—The total gasoline production in 1960 was 1,528.2 million barrels, of which 87.9 percent was produced from crude oil and 12.1 percent, from natural-gas liquids.

Yields.—The average gasoline yield from crude oil increased 0.3 percent in 1960, thus equaling the 1958 record high of 45.2 percent. The higher yield of light end products from crude oil is the result of additional installation of coking facilities at refineries, which crack

deeper the heavy residuals to produce a greater volume of light products and the byproduct coke.

Domestic Demand.—The domestic demand for gasoline and naphtha in 1960 was 1,517.4 million barrels, a 2.2 percent gain for the year. Civilian highway use of gasoline, as calculated from data compiled by the Bureau of Public Roads totaled 1,320.1 million barrels (87.0 percent of the domestic demand), compared with 1,288.2 million barrels in 1959. Aviation gasoline represented 3.9 percent of the demand in 1960 compared with 5.2 percent for the previous year. The remainder, 137.5 million barrels, was considered as used for nonhighway motor vehicles, military motor vehicles, stationery and marine engines and losses.

Production and Consumption by States.—Table 51 shows gasoline production, consumption by PAD Districts, and the interdistrict shipments which balance the supply for each district. The consumption data compiled by the American Petroleum Institute excludes special naphtha and offshore military shipments. For comparative purposes in this table, the naphtha part of gasoline production has been excluded. Because no breakdown by districts is available on the 18.1 million barrels of natural-gas liquids, which was blended with gasoline at terminal facilities away from the refineries in 1960, it has been omitted from the production figures. This roughly offsets the omission of offshore military shipments in the consumption data.

Method of Distribution.—Gasoline deliveries by pipeline totaled 712 million barrels in 1960. This represented 68 percent of the total volume transported by product pipelines. Tidewater shipments of gasoline to the Atlantic seaboard States amounted to 246 million barrels (244.7 million from the gulf coast and 1.3 million barrels from the west coast). Interdistrict barge shipments from the Gulf Coast States up the Mississippi river were 46.6 million barrels in 1960. The west coast States received 17.6 million barrels of gasoline from the other States in 1960 (2.2 million via the Panama Canal, 12.7 million by pipeline, and the rest by rail). Data on intradistrict shipments of gasoline is not available, but the volume is presumed to be large.

Stocks.—Stocks of finished gasoline, as reported, include those held at refineries and at bulk terminals operated by refining and pipeline companies, but do not include those held by secondary distributors, by consumers, or in military custody. The Bureau of Mines definition of a bulk-terminal installation is any storage facility operated by refining or pipeline companies, which receives its principal products by tanker, barge, or pipeline or any storage point with a combined capacity for storing gasoline, kerosine, distillate fuel oil, residual fuel oil, or jet fuels of 50,000 barrels or more, regardless of transportation means by which products are received.

There are definite normal seasonal variations in gasoline storage because of a summer peak and a winter low in gasoline demand. These stocks build up in the winter (although refinery yields are lower) and decrease sharply during the summer. This variation in stocks makes unnecessary large variations in seasonal yields of gasoline from crude oil. Distillate fuel oil is exactly reversed as demand is high in winter and low in summer.

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TABLE 48.—Salient statistics of aviation gasoline in the United States, 1959 total and 1960 [1] by months

(Thousand barrels)

Item	1960 [2]													1959 Total	
	January	February	March	April	May	June	July	August	September	October	November	December	Total	([3])	([3])
Production, by grades:															
115–145-octane	4,112	4,054	3,836	3,301	3,379	3,385	3,259	3,609	2,564	3,330	3,446	3,426	41,701	52,282	52,282
108–135-octane	87	94	117	19	22	4	52	33	20	6		24	478	2,232	2,232
100–130-octane	1,977	1,692	2,028	1,765	1,716	1,459	1,445	1,978	1,530	1,716	1,328	1,370	20,004	27,028	27,028
91–98-octane	206	254	216	141	218	213	188	124	173	166	144	145	2,188	3,046	3,046
Other grades	274	139	257	286	312	440	376	449	450	338	363	353	4,037	4,136	4,136
Alkylate	3,745	3,528	3,326	3,633	3,874	3,517	4,054	3,824	4,929	3,897	3,713	4,288	46,328	34,924	34,924
Transfers out [4]	3,000	2,945	3,358	3,461	3,539	3,570	3,938	4,229	4,376	3,709	3,136	3,757	43,018	34,679	34,679
Exports	555	582	863	1,229	1,084	953	888	977	915	914	564	506	10,030	12,212	13,117
Stocks, by grades:															
115–145-octane	4,222	4,417	4,560	4,558	4,237	4,881	3,983	4,240	3,630	4,095	4,547	4,412	4,412	3,990	3,942
108–135-octane	235	264	322	258	157	91	73	53	49	39	33	37	37	243	193
100–130-octane	3,375	3,146	3,387	3,338	3,039	2,795	2,715	2,829	2,783	2,838	2,847	2,861	2,861	3,074	3,060
91–98-octane	661	735	715	622	644	644	636	580	588	600	621	602	602	654	653
Other grades	643	586	561	571	569	603	579	616	686	725	731	799	799	559	556
Alkylate	4,265	4,877	4,774	4,927	5,202	4,929	4,840	4,290	4,369	4,417	4,806	5,227	5,227	3,519	3,519
Domestic demand, all grades	5,484	5,610	5,265	4,500	5,324	4,400	5,665	5,029	4,878	4,221	4,423	4,990	59,789	77,341	76,425
Total demand, by grades:															
115–145-octane	3,870	3,828	3,680	3,297	3,687	2,706	4,138	3,299	3,143	2,848	2,974	3,500	40,970	51,999	51,992
108–135-octane	92	64	57	82	123	70	70	15	14	16	6	7	616	2,281	2,296
100–130-octane	1,662	1,907	1,752	1,797	1,972	1,669	1,504	1,832	1,564	1,630	1,306	1,335	19,930	26,917	26,903
91–98-octane	188	179	229	227	191	210	192	179	159	152	122	160	2,188	3,193	3,186
Other grades	187	195	286	275	309	399	399	404	363	292	352	279	3,740	4,017	4,019
Alkylate	40	19	124	51	126	299	250	277	550	197	227	215	2,375	1,146	1,146
Production, by districts:															
District 1	556	816	1,089	904	1,018	1,069	961	1,079	858	900	614	607	10,471	10,206	10,206
District 2	1,959	1,808	1,879	1,733	1,722	1,787	1,933	2,166	2,127	2,112	2,032	2,266	23,524	20,468	20,468
District 3	5,617	4,937	5,169	4,827	5,007	4,537	4,728	5,045	4,715	4,557	4,525	4,828	58,492	66,080	66,080
District 4	138	129	89	142	175	145	136	121	223	189	201	242	1,930	1,442	1,442
District 5	2,131	2,071	1,554	1,539	1,599	1,480	1,616	1,606	1,743	1,695	1,622	1,663	20,319	25,452	25,452
Total	10,401	9,761	9,780	9,145	9,521	9,018	9,374	10,017	9,666	9,453	8,994	9,606	114,736	123,648	123,648

Exports, by districts:															
District 1	8	1	28	27	23	59	148	77	57	34	42	126	630	364	364
District 2	17	17	13	59	12	14	11	12	9	10	8	7	189	603	603
District 3	320	400	735	877	915	784	489	801	658	773	368	223	7,343	9,523	9,523
District 4									3	2	2	2	9		
District 5	210	164	87	266	134	96	240	87	188	95	144	148	1,859	1,722	2,627
Total	555	582	863	1,229	1,084	953	888	977	915	914	564	506	10,030	12,212	13,117
Stocks, by districts:															
District 1	947	1,299	1,427	1,299	1,338	1,352	1,195	1,301	1,308	1,390	1,252	1,056	1,056	1,056	1,056
District 2	2,597	2,791	2,741	2,670	2,50	2,481	2,343	2,338	2,256	2,270	2,537	2,529	2,529	2,443	2.443
District 3	6,103	6,001	6,332	6,372	5,923	6,031	5,495	5,446	5,286	5,600	6,064	6,632	6,632	4,990	4,990
District 4	366	414	399	423	490	520	530	527	596	630	683	731	731	333	333
District 5	3,388	3,520	3,420	3,510	3,597	3,559	3,463	2,996	2,659	2,824	2,049	2,990	2,990	3,217	3,101
Total	13,401	14,025	14,319	14,274	13,848	13,943	12,826	12,608	12,105	12,714	13,585	13,938	13,938	12,039	11,923
Shipments originating in—															
District 1	240	91	451	324	347	442	335	420	357	329	349	352	4,037	4,846	4,846
District 2	772	570	793	780	777	664	855	837	882	860	557	866	9,213	9,955	9,955
District 3	3,258	3,911	3,415	3,345	4,083	2,985	3,837	3,426	3,160	2,878	3,055	2,994	40,347	52,674	52,674
District 4	89	73	90	95	98	109	107	110	84	91	78	85	1,109	1,093	1,093
District 5	1,680	1,547	1,379	1,185	1,103	1,153	1,419	1,213	1,310	977	948	1,199	15,113	20,985	20,974
Total	6,039	6,192	6,128	5,729	6,408	5,353	6,553	6,006	5,793	5,135	4,987	5,496	69,819	89,553	89,542

[1] Preliminary figures.
[2] Includes Alaska and Hawaii.
[3] Includes Alaska.
[4] Reject material used as automotive gasoline.

TABLE 49.—Salient statistics of gasoline in the United States, 1958 total and 1959–60 by months

(Thousand barrels)

	1959[1]													1958 total
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
Production:														
Finished gasoline and naptha from crude oil	114,472	97,881	110,995	106,079	110,464	110,752	113,880	117,043	109,929	106,561	108,394	114,095	1,320,545	1,272,976
Unfinished gasoline (net)	−631	1,296	1,065	−1,410	−20	522	−517	−1,161	−497	616	−182	481	−438	1,711
Natural-gas liquids used at refineries	11,941	11,114	12,884	11,882	12,338	12,602	12,989	13,262	12,735	13,733	13,644	14,199	153,323	137,269
Sold to jobbers	1,807	1,301	1,355	1,627	1,164	775	1,706	1,293	1,233	1,007	1,070	1,092	15,430	27,555
Total production	127,589	111,592	126,299	118,178	123,946	124,651	128,058	130,437	123,400	121,917	122,926	129,867	1,488,860	1,439,511
Daily average	4,116	3,985	4,074	3,939	3,998	4,155	4,131	4,208	4,113	3,933	4,098	4,189	4,079	3,944
Imports	1,174	1,381	2,363	838	417	1,367	422	534	908	830	1,489	1,635	13,358	13,773
Exports	1,699	1,514	1,379	2,216	2,081	1,724	2,004	1,555	1,741	1,717	1,414	1,842	20,886	27,403
Daily average	55	54	44	74	67	57	65	50	58	55	47	59	57	75
Stocks, end of period:														
Finished gasoline	187,472	197,468	204,648	197,841	193,106	183,022	172,755	170,543	163,247	162,780	169,701	175,319	175,319	[1] 174,770
Unfinished gasoline	11,603	12,899	13,964	12,554	12,534	13,056	12,539	11,378	10,881	11,497	11,315	11,796	11,796	12,234
Total stocks	199,075	210,367	218,612	210,395	205,640	196,078	185,294	181,921	174,128	174,277	181,016	187,115	187,115	[1] 187,004
Domestic demand	114,993	100,167	119,038	125,017	127,037	133,856	137,260	132,789	130,360	120,881	116,262	123,561	1,481,221	1,435,897
Daily average	3,709	3,577	3,840	4,167	4,098	4,462	4,428	4,284	4,345	3,899	3,875	3,986	4,058	3,934

	1959[2]													1958 total
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
Production:														
Finished gasoline and naptha from crude oil	114,472	97,881	110,995	106,079	110,464	110,752	113,880	117,043	109,929	106,561	108,394	114,095	1,320,545	----------
Unfinished gasoline (net)	−631	1,296	1,065	−1,410	−20	522	−517	−1,161	−497	616	−182	481	−438	----------
Natural-gas liquids used at refineries	11,941	11,114	12,884	11,882	12,338	12,602	12,989	13,262	12,735	13,733	13,644	14,199	153,323	----------
Sold to jobbers	1,807	1,301	1,355	1,627	1,164	775	1,706	1,293	1,233	1,007	1,070	1,092	15,430	----------
Total production	127,589	111,592	126,299	118,178	123,946	124,651	128,058	130,437	123,400	121,917	122,926	129,867	1,488,860	----------
Daily average	4,116	3,985	4,074	3,939	3,998	4,155	4,131	4,208	4,113	3,933	4,098	4,189	4,079	----------
Imports	1,174	1,381	2,363	838	417	1,367	422	534	908	830	1,489	1,635	13,358	----------
Exports	1,329	1,276	1,150	1,795	1,731	1,325	1,690	1,070	1,485	1,283	1,094	1,515	16,743	----------
Daily average	43	46	37	60	56	44	55	35	50	41	36	49	46	----------

Stocks, end of period:														
Finished gasoline	188,071	197,949	205,141	198,397	193,641	183,506	173,204	171,027	163,699	163,326	170,241	175,817	175,817	175,181
Unfinished gasoline	11,603	12,899	13,964	12,554	12,534	13,056	12,539	11,378	10,881	11,497	11,315	11,796	11,796	12,234
Total stocks	199,674	210,848	219,105	210,951	206,175	196,562	185,743	182,405	174,580	174,823	181,556	187,613	187,613	187,415
Domestic demand	115,175	100,523	119,255	125,375	127,408	134,306	137,609	133,239	130,648	121,221	116,588	123,930	1,485,277	
Daily average	3,715	3,590	3,847	4,179	4,110	4,477	4,439	4,298	4,355	3,910	3,886	3,998	4,069	
	1960[2,3]													1959 total
Production:														
Finished gasoline and naptha from crude oil	115,020	107,398	110,735	107,864	111,636	111,505	116,686	118,192	112,327	109,999	106,554	113,616	1,341,532	1,320,545
Unfinished gasoline (net)	611	−647	1,077	653	−1,062	369	1,031	−1,301	−549	36	1,293	298	1,809	−438
Natural-gas liquids used at refineries	14,063	12,704	13,347	12,878	13,085	12,926	13,805	14,237	14,202	15,000	14,812	15,734	166,793	153,323
Sold to jobbers	645	852	1,707	2,054	1,567	2,105	1,963	1,756	1,584	1,526	1,214	1,139	18,112	15,430
Total production	130,339	120,307	126,866	123,449	125,226	126,905	133,485	132,884	127,564	126,561	123,873	130,787	1,528,246	1,488,860
Daily average	4,204	4,149	4,092	4,115	4,040	4,230	4,306	4,287	4,252	4,083	4,129	4,219	4,176	4,079
Imports	257	635	467	661	571	1,254	1,037	948	1,396	840	781	943	9,790	13,358
Exports	916	914	1,284	1,007	1,436	1,307	1,115	1,160	1,107	1,130	747	745	13,468	16,743
Daily average	30	32	41	54	46	44	36	37	37	36	25	24	37	46
Stocks, end of period:														
Finished gasoline	193,575	205,379	209,854	202,610	198,081	185,655	182,193	177,795	177,667	177,660	175,419	181,169	181,169	175,817
Unfinished gasoline	12,407	11,760	12,837	13,490	12,428	12,797	13,828	12,527	11,978	12,014	13,307	13,605	13,605	11,796
Total stocks	205,982	217,139	222,691	216,100	210,509	198,452	196,021	190,322	189,645	189,674	208,726	194,774	194,774	187,613
Domestic demand	111,311	108,871	120,497	129,094	129,952	138,909	135,838	138,371	128,530	126,242	124,855	124,937	1,517,407	1,485,277
Daily average	3,591	3,754	3,887	4,303	4,192	4,630	4,382	4,464	4,284	4,072	4,162	4,030	4,146	4,069

[1] Includes Alaska.

[2] Includes Alaska and Hawaii.

[3] Preliminary figures.

TABLE 50.—Production of gasoline in the United States in 1961,[1] by districts and months

(Thousand barrels)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Gasoline from crude oil (excludes net unfinished):													
East Coast	15,236	15,511	15,873	14,305	15,066	15,668	16,798	16,102	15,031	15,705	14,441	15,203	184,939
Appalachian No. 1	1,215	1,212	1,224	1,280	1,223	1,220	1,262	1,276	1,236	949	1,170	1,370	14,637
Appalachian No. 2	1,698	1,598	1,305	1,397	1,373	1,388	1,746	1,744	1,688	1,748	1,599	1,572	18,856
Indiana, Illinois, Kentucky, etc.	23,144	20,627	20,800	21,276	21,535	22,221	21,755	23,179	22,440	20,866	20,181	21,492	259,516
Minnesota, Wisconsin, etc	1,795	1,515	1,677	1,638	1,754	1,796	1,764	1,786	1,569	1,636	1,566	1,787	20,283
Oklahoma, Kansas, etc	11,223	10,572	10,257	9,020	10,256	11,201	11,208	11,454	10,729	10,001	10,340	11,487	127,748
Texas Inland	4,187	3,656	3,886	3,903	3,972	4,189	4,495	4,505	4,176	4,014	3,830	4,195	49,008
Texas Gulf Coast	24,808	23,396	24,384	24,546	25,281	24,577	25,685	25,926	24,300	24,585	23,243	24,615	295,346
Louisiana Gulf Coast	9,513	8,192	9,800	9,656	9,556	8,478	10,439	9,920	9,264	8,838	8,975	9,332	111,963
Arkansas, Louisiana Inland, etc.	1,134	1,131	1,189	1,142	1,251	1,145	1,154	1,140	1,220	1,290	1,262	1,262	14,320
New Mexico	338	298	320	278	291	315	339	319	275	214	268	319	3,574
Rocky Mountain	4,150	3,761	3,760	3,237	3,392	3,760	4,185	4,159	3,970	3,945	3,840	4,028	46,187
West Coast	14,552	13,823	14,088	13,744	13,954	12,920	13,316	14,057	13,765	13,770	13,555	14,486	166,030
Total gasoline	112,993	105,202	108,563	105,422	108,904	108,878	114,146	115,567	109,663	107,561	104,270	111,148	1,312,407
Naphtha:													
East Coast	127	103	111	80	140	146	136	118	94	100	102	63	1,320
Appalachian No. 1	41	8	2	22	4	50	34	31	44	16	29	26	307
Appalachian No. 2	4	3	3	4	2	4	3	4	4	1	2	3	37
Indiana, Illinois, Kentucky, etc.	295	387	457	419	443	309	392	330	363	387	279	316	4,377
Minnesota, Wisconsin, etc													
Oklahoma, Kansas, etc	192	135	216	222	303	256	177	212	193	179	162	199	2,446
Texas Inland	32	37	52	41	44	40	31	67	59	50	39	38	530
Texas Gulf Coast	976	1,178	996	1,067	1,307	1,253	1,211	1,408	1,259	1,339	1,284	1,475	14,753
Louisiana Gulf Coast	252	178	171	219	177	236	209	115	189	203	96	35	2,080
Arkansas, Louisiana Inland, etc.	90	68	93	84	89	98	71	69	73	80	68	78	961
New Mexico													
Rocky Mountain	18	5	27	21	8	5	40	20	11	17	17	12	201
West Coast		4	44	263	215	230	236	251	375	66	206	223	2,113
Total naphtha	2,027	2,106	2,172	2,442	2,732	2,627	2,540	2,625	2,664	2,438	2,284	2,468	29,125
Total gasoline and naphtha from crude	115,020	107,398	110,735	107,864	111,636	111,505	116,686	118,192	112,327	109,999	106,554	113,616	1,341,532

Unfinished gasoline (net):													
East Coast	−289	−177	177	743	−46	−59	−240	−342	23	59	366	33	248
Appalachian No. 1	−40	−37	−16	−46	−19	−36	−42	−26	−32	−14	−3	−46	−357
Appalachian No. 2	−8	−17	37	−24	−21	−6	−7	−11	−32	3	−22	6	−102
Indiana, Illinois, Kentucky, etc.	−5	1	216	194	−382	−226	757	−228	−368	−7	223	−5	170
Minnesota, Wisconsin, etc.			1	−1		1	−1		1	−1	1	15	16
Oklahoma, Kansas, etc.	10	9	51	−43	9	−9	−28	−117	74	−54	192	−29	65
Texas Inland	241	239	236	205	170	181	113	142	108	117	107	169	2,028
Texas Gulf Coast	238	−463	115	−338	−868	506	331	−478	−343	−97	421	90	−886
Louisiana Gulf Coast	−33	−20	−117	−87	−38	−3	−144	−37	−56	−54	36	−43	−596
Arkansas, Louisiana Inland, etc.	101	41	−18	−7	−61	15	−20	55	−42	−5	4	20	83
New Mexico		2			1	−5	−7	−7	−4	1	−2		−21
Rocky Mountain	−17	82	−1	−23	25	−52	−2	−38	32	−12	39	−32	1
West Coast	413	−307	396	80	168	62	321	−214	90	100	−69	120	1,160
Total unfinished gasoline (net)	611	−647	1,077	653	−1,062	369	1,031	−1,301	−549	36	1,293	298	1,899
Percentage yield of gasoline and naphtha [2]	44.9	45.7	45.0	45.5	45.3	45.5	45.5	45.1	45.1	44.8	44.8	44.7	45.2
Natural-gas liquids blended at refineries	14,063	12,704	13,347	12,878	13,085	12,926	13,805	14,237	14,202	15,000	14,812	15,734	166,793
Total refinery production:													
East Coast	15,291	15,612	16,287	15,325	15,218	15,866	16,787	16,049	15,308	16,051	15,114	15,450	188,358
Appalachian No. 1	1,219	1,185	1,210	1,256	1,208	1,234	1,254	1,281	1,248	951	1,196	1,350	14,592
Appalachian No. 2	1,604	1,588	1,352	1,386	1,361	1,398	1,760	1,751	1,660	1,752	1,579	1,581	18,862
Indiana, Illinois, Kentucky, etc.	24,850	22,309	22,768	22,975	22,765	23,230	23,986	24,473	23,620	22,483	22,067	23,310	278,836
Minnesota, Wisconsin, etc.	1,858	1,571	1,722	1,684	1,794	1,871	1,830	1,851	1,630	1,718	1,650	1,887	21,066
Oklahoma, Kansas, etc.	12,756	11,896	11,788	10,500	11,835	12,682	12,558	12,926	12,465	11,631	12,328	13,214	146,579
Texas Inland	6,543	5,954	6,558	6,381	6,607	6,707	7,179	7,180	6,931	6,782	6,437	6,825	80,084
Texas Gulf Coast	30,209	27,731	29,169	28,919	29,538	30,207	31,274	31,215	29,336	30,159	29,067	30,904	357,728
Louisiana Gulf Coast	11,225	9,657	11,120	10,998	10,799	9,878	11,870	11,522	10,915	10,556	10,761	11,153	130,454
Arkansas, Louisiana Inland, etc.	2,217	1,934	2,039	1,957	2,014	1,935	1,901	1,794	1,911	2,064	2,045	2,089	23,900
New Mexico	414	379	386	343	368	398	425	419	357	303	351	393	4,536
Rocky Mountain	4,416	4,100	4,034	3,431	3,658	3,985	4,513	4,414	4,275	4,243	4,225	4,347	49,641
West Coast	17,002	15,539	16,726	16,240	16,494	15,409	16,185	16,253	16,324	16,342	15,839	17,145	195,498
Total 1960	129,694	119,455	125,159	121,395	123,659	124,800	131,522	131,128	125,980	125,035	122,659	129,648	1,510,134
Natural-gas liquids used in other gasoline blends [3]	645	852	1,707	2,054	1,567	2,105	1,963	1,756	1,584	1,526	1,214	1,139	18,112
Total gasoline production	130,339	120,307	126,866	123,449	125,226	126,905	133,485	132,884	127,564	126,561	123,873	130,787	1,528,246

[1] Preliminary figures.
[2] Based on crude runs to stills and adjusted for net stocks of unfinished oils.
[3] This represents a net figure and includes exports.

With the exception of January, stocks of gasoline at the close of each month in 1960 exceeded historical records for the same months. Stocks at the beginning of 1960 were about the same as opening stocks for 1959, but by the end of the year they were 7.2 million barrels higher. The estimated days' supply of finished and unfinished gasoline at yearend was 52.3 days, compared with 51.8 on Dec. 31, 1959.

TABLE 51.—Consumption, production, and distribution [1] of gasoline in 1960, by PAD districts

(Millions of barrels)

	PAD DISTRICTS					
	I	II	III	IV	V	Total
Consumption [2]	512.3	532.0	195.2	44.4	211.6	1,495.5
Supply:						
Production [3]	201.4	458.3	577.8	49.5	192.2	1,479.2
Imports	8.3				1.5	9.8
Received from other Districts:						
From District I		22.5				
From District II	10.8		13.3	.3		
From District III	313.3	81.3		5.7	9.1	
From District IV		2.1			8.4	
From District V	1.2			1.1		
Total receipts	325.3	105.9	13.3	7.1	17.5	
Total supply	535.0	564.2	591.1	56.6	211.2	1,489.0
Stock change [4]	+1.4	−1.2	+5.2	+.4	−1.7	+4.1
Shipped to other districts	22.5	24.4	409.4	10.5	2.3	
Exports	.8	.5	8.9	.1	3.2	13.5
Domestic demand	510.3	540.5	167.6	45.6	207.4	1,471.4
Difference between consumption and demand	+2.0	−8.5	+27.6	−1.2	+4.2	+24.1

[1] Apparent distribution of gasoline by districts is based on actual data on tidewater and river shipments compiled by the Geological Survey, U.S. Department of the Interior. An estimate of annual interdistrict railroad shipments was computed from January-June 1960 data compiled by the Bureau of Transport Economics, Interstate Commerce Commission and records compiled by the San Francisco office of the Bureau of Mines. Interdistrict pipeline shipments are compiled by the Bureau of Mines. As information on shipments moving from PAD District II by way of the Great Lakes ports and the Ohio River to PAD District I were not available for 1960 an estimate has been made on the basis of preceding year's data.

[2] Compiled by the American Petroleum Institute.

[3] Excludes naphtha and unfinished gasoline production and gasoline blended at terminal facilities.

[4] Includes only finished gasoline stocks.

TABLE 52.—Production (refinery output) and consumption of gasoline in the United States, by States

(Thousand barrels)

	1958		1959		1960 [1]	
	Production [2]	Consumption [3]	Production [2]	Consumption [3]	Production [2]	Consumption [3]
Alabama	(4)	22,517	(4)	23,677	(4)	24,273
Alaska		(5)		1,924		1,907
Arizona		10,773		11,642		12,500
Arkansas	11,158	13,565	9,181	14,145	12,635	14,470
California	[6] 178,083	136,738	[6] 190,924	141,537	[6] 195,498	143,253
Colorado	5,564	16,289	6,016	16,983	6,205	17,204
Connecticut		17,593		18,271		18,808
Delaware	(7)	4,463	(7)	4,853	(7)	4,844
District of Columbia		4,716		4,934		4,830
Florida		41,955		44,754		45,488
Georgia		29,354		30,907	(8)	31,731
Hawaii		(5)		4,278	(6)	5,244
Idaho		6,462		6,681		6,760
Illinois	104,299	70,261	107,604	72,221	114,638	73,591
Indiana	69,340	40,715	72,919	42,777	70,825	43,529
Iowa		27,994		28,378		28,837
Kansas	56,752	24,772	59,131	25,197	61,669	25,800
Kentucky	[9] 15,086	20,746	[9] 16,975	21,643	[9] 16,860	21,874
Louisiana	[4] 135,901	22,392	[4] 141,751	22,987	[4] 141,719	22,940
Maine		7,636		7,909		8,198
Maryland	(8)	20,484	(8)	21,505	(8)	22,255
Massachusetts	[7] 22,668	32,252	[7] 27,258	33,935	[7] 25,631	34,790
Michigan	18,294	61,362	19,908	63,610	21,240	65,735
Minnesota	8,921	31,059	9,021	31,618	10,693	32,916
Mississippi	(4)	14,809	(4)	15,789	(4)	15,912
Missouri	[10] 14,993	39,291	[10] 11,099	41,271	[10] 12,276	41,864
Montana	9,518	6,966	10,452	7,302	10,539	7,513
Nebraska	(10)	14,214	(10)	14,720	(10)	14,969
Nevada		3,285		3,588		3,793
New Hampshire		4,694		4,830		4,986
New Jersey	59,162	45,417	61,328	47,802	66,508	48,814
New Mexico	4,442	10,573	4,728	10,295	4,536	9,637
New York	14,040	95,255	13,011	97,949	12,259	102,848
North Carolina		32,587		34,805		35,387
North Dakota	[11] 8,160	7,646	[11] 9,264	7,280	[11] 10,373	7,942
Ohio	72,578	74,309	76,977	77,424	74,135	77,702
Oklahoma	72,775	23,991	73,590	26,008	72,634	27,025
Oregon		15,376		16,065		16,380
Pennsylvania	94,396	75,604	93,109	77,571	90,626	78,589
Rhode Island	(7)	5,861	(7)	5,924	(7)	5,931
South Carolina	(8)	16,436	(8)	17,400	(8)	17,674
South Dakota		8,163		8,276		8,474
Tennessee	(9)	26,392	(9)	28,279	(9)	29,075
Texas	397,935	112,030	419,042	109,275	437,812	107,938
Utah	14,573	7,782	15,068	8,203	15,541	8,520
Vermont		3,006		3,127		3,236
Virginia	[8] 6,306	30,098	[8] 6,621	31,484	[8] 7,109	31,776
Washington	(6)	24,047	(6)	27,200	(6)	28,472
West Virginia	753	11,830	833	12,560	817	12,192
Wisconsin	(11)	30,640	(11)	31,529	(11)	32,690
Wyoming	16,259	4,036	17,620	4,262	17,356	4,405
Total	1,411,956	1,408,436	1,473,430	1,466,584	1,510,134	1,495,521

[1] Preliminary figures.
[2] Excludes gasoline blended into jet fuel at refineries.
[3] American Petroleum Institute.
[4] Alabama and Mississippi included with Louisiana.
[5] Not included before 1959.
[6] Washington and Hawaii included with California.
[7] Delaware and Rhode Island included with Massachusetts.
[8] Maryland, South Carolina, and Georgia (1960) included with Virginia.
[9] Tennessee included with Kentucky.
[10] Nebraska included with Missouri.
[11] Wisconsin included with North Dakota.

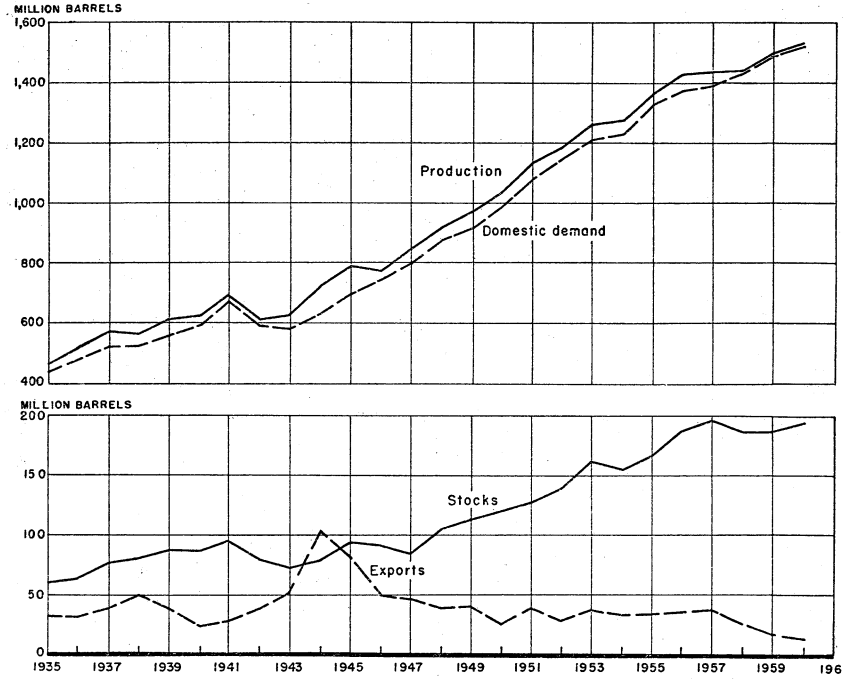

FIGURE 7.—Production, domestic demand, exports, and stocks of gasoline in the United States, 1935–60.

TABLE 53.—Transportation of petroleum products by pipeline in 1959–60, by months

(Thousand barrels)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959:													
Turned into lines:[1]													
Gasoline	55,426	48,538	59,909	58,574	61,790	62,615	64,456	63,481	60,595	59,957	56,069	57,656	709,066
Kerosine	5,827	4,923	3,980	3,283	2,489	2,655	2,469	2,997	4,003	4,872	5,149	5,893	48,540
Distillate fuel oil	27,523	22,686	19,467	15,841	13,649	14,833	15,287	15,496	16,669	18,468	21,923	27,482	229,324
Natural-gas liquids	3,844	3,205	2,957	2,761	2,845	2,733	3,070	3,125	3,164	3,805	4,230	4,677	40,416
Delivered from lines:[1]													
Gasoline	53,947	48,047	56,911	59,029	61,985	63,439	64,809	64,640	61,824	59,626	56,384	57,577	708,218
Kerosine	6,616	4,909	3,928	3,211	2,283	2,264	2,503	2,695	3,545	4,560	5,128	6,050	47,692
Distillate fuel oil	29,322	24,803	20,572	15,167	12,840	13,008	13,581	12,426	15,897	17,979	22,249	27,713	225,557
Natural-gas liquids	4,018	3,235	3,011	2,796	2,799	2,686	2,926	3,130	3,073	3,741	4,174	4,651	40,240
Shortage (or coverage):[2]													
Gasoline	(57)	(26)	(24)	41	15	1	(10)	104	62	(45)	86	(64)	83
Kerosine	110	111	89	96	75	69	77	68	77	105	139	122	1,138
Distillate fuel oil	(55)	(44)	(21)	(37)	3	(1)	3	20	22	(95)	54	----------	(151)
Natural-gas liquids	56	(17)	72	18	(2)	21	12	14	37	84	32	67	394
Stocks in lines and working tanks at end of month:													
Gasoline	23,566	24,083	27,105	26,609	26,399	25,574	25,231	23,968	22,677	23,053	22,652	22,795	22,795
Kerosine	1,728	1,631	1,594	1,570	1,701	2,023	1,912	2,146	2,527	2,734	2,616	2,337	2,337
Distillate fuel oil	11,213	9,140	8,056	8,767	9,573	11,399	13,102	16,152	16,902	17,486	17,106	16,875	16,875
Natural-gas liquids	1,704	1,691	1,565	1,512	1,560	1,586	1,718	1,699	1,753	1,733	1,757	1,716	1,716
1960:													
Turned into lines:[1]													
Gasoline	55,244	53,808	56,941	60,339	62,063	65,218	62,999	62,058	58,401	60,034	58,155	57,607	712,867
Kerosine	6,111	4,663	5,103	3,937	2,902	3,757	3,216	3,884	4,507	4,948	5,117	6,777	54,922
Distillate fuel oil	26,845	20,449	22,459	15,345	14,566	16,055	16,665	17,962	16,187	17,803	20,542	27,343	232,221
Natural-gas liquids	5,390	4,338	4,809	3,816	3,663	3,451	3,665	3,768	4,182	4,532	5,127	6,314	53,055
Delivered from lines:[1]													
Gasoline	55,275	51,240	55,908	60,133	62,538	65,172	63,057	63,411	58,869	59,989	58,406	57,958	711,956
Kerosine	5,898	4,879	5,261	3,840	2,736	3,576	3,080	3,678	3,846	4,904	5,040	6,444	53,182
Distillate fuel oil	28,424	22,995	25,540	16,082	13,310	14,252	14,773	15,144	16,159	16,995	20,666	28,513	232,853
Natural-gas liquids	4,984	4,504	4,809	4,016	3,661	3,505	3,600	3,670	3,533	4,135	4,480	5,807	50,704
Shortage (overage):[2]													
Gasoline	(103)	(18)	102	(38)	138	17	100	63	75	65	49	3	453
Kerosine	115	128	88	127	72	75	94	101	73	127	138	124	1,262
Distillate fuel oil	60	(57)	(193)	(2)	(22)	(20)	35	(23)	(1)	(13)	(38)	(48)	(322)
Natural-gas liquids	52	28	35	20	17	20	28	23	33	30	40	94	420
Stocks in lines and working tanks at end of month:													
Gasoline	22,867	25,453	26,384	26,628	26,015	26,044	25,886	24,470	23,927	23,907	23,607	23,253	23,253
Kerosine	2,435	2,091	1,845	1,815	1,909	2,015	2,057	2,162	2,750	2,667	2,606	2,815	2,815
Distillate fuel oil	15,236	12,747	9,859	9,124	10,402	12,225	14,082	16,923	16,952	17,773	17,687	16,565	16,565
Natural-gas liquids	2,070	1,876	1,841	1,621	1,606	1,532	1,569	1,644	2,260	2,627	3,234	3,647	3,647

[1] The quantities "Turned into lines" and "Delivered from lines" are on a net basis, eliminating intersystem transfers.

[2] Figures in parentheses represent overage.

TABLE 54.—Transportation of petroleum products by pipeline between PAD districts in the United States in 1959–60, by months

(Thousand barrels)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959:													
From District 1 to District 2:													
Gasoline	931	996	1,388	1,437	1,407	1,340	1,558	1,549	1,576	1,371	1,439	1,390	16,382
Kerosine	151	102	59	38	37	36	33	29	39	86	102	178	890
Distillate fuel oil	186	204	265	182	198	174	305	199	193	346	214	267	2,733
From District 2 to District 3:													
Gasoline	1,011	1,080	1,272	1,315	966	1,220	1,292	1,187	1,360	1,167	1,088	1,162	14,120
Kerosine	1									1	1		3
Distillate fuel oil	660	359	358	257	125	158	178	321	433	675	599	648	4,771
From District 3 to District 1:													
Gasoline	4,369	4,516	4,846	4,610	5,159	4,944	5,175	5,320	5,150	5,128	5,037	4,815	59,069
Kerosine	1,614	845	582	455	186	335	381	617	889	1,107	1,117	1,392	9,520
Distillate fuel oil	1,737	1,841	1,121	918	877	946	1,234	1,415	1,372	1,348	1,241	1,692	15,742
From District 3 to District 2:													
Gasoline	1,832	2,069	2,829	2,106	3,006	2,621	2,979	2,686	2,620	2,753	3,154	2,736	31,391
Kerosine	248	256	72	36	162	130	171	179	70	418	264	199	2,205
Distillate fuel oil	1,644	1,211	677	301	441	514	772	895	1,385	1,744	647	1,750	11,981
From District 3 to District 4:													
Gasoline	369	196	250	222	314	266	282	343	448	423	225	252	3,590
Kerosine	1	1	11	1	1			1	1	2	36	41	96
Distillate fuel oil	68	36	36	41	47	40	48	42	74	99	27	30	588
From District 3 to District 5:													
Gasoline	488	444	517	438	439	537	458	395	478	519	501	553	5,767
Kerosine	1	1	1	1	1	1	1	1	1	1	1	1	12
Distillate fuel oil	77	51	75	55	56	70	55	40	52	47	63	57	698
From District 4 to District 5:													
Gasoline	484	462	484	545	485	611	525	453	524	490	476	486	6,025
Distillate fuel oil	328	272	372	257	251	153	194	191	327	383	438	450	3,616
1960:													
From District 1 to District 2:													
Gasoline	1,593	1,579	1,597	1,779	1,872	2,002	1,822	2,226	1,839	2,059	1,931	1,963	22,262
Kerosine	126	75	109	66	53	21	33	47	104	90	116	141	981
Distillate fuel oil	299	205	324	287	234	203	269	293	298	246	329	329	3,316
From District 2 to District 1:													
Gasoline	468	391	505	452	427	385	413	448	402	433	490	411	5,225
From District 2 to District 3:													
Gasoline	1,004	928	912	994	1,018	1,272	1,075	1,039	1,088	1,008	981	1,138	12,457
Kerosine													
Distillate fuel oil	360	230	105	159	209	169	327	464	406	468	376	552	3,825
From District 3 to District 1:													
Gasoline	4,726	4,860	4,860	4,911	5,432	5,097	5,702	5,438	5,302	5,378	5,242	5,306	62,254
Kerosine	1,163	1,032	1,054	757	315	461	628	990	855	1,064	1,143	1,214	10,676
Distillate fuel oil	1,883	1,489	1,613	1,324	1,071	957	1,213	1,597	1,508	1,067	1,310	1,674	16,706

From District 3 to District 2:													
Gasoline	2,514	2,841	3,134	3,328	3,553	3,656	3,268	3,450	3,129	3,469	3,450	3,648	39,440
Kerosine	67	153	53	109	65	186	170	117	82	80	69	255	1,406
Distillate fuel oil	1,540	537	814	764	609	832	1,107	1,032	911	793	708	823	10,470
Liquefied gases	1,401	1,140	1,329	622	461	374	491	741	942	1,254	1,248	2,787	12,790
From District 3 to District 4:													
Gasoline	385	382	415	437	435	507	556	572	520	481	488	462	5,640
Kerosine	49	55	57	43	51	45	66	62	75	89	97	104	793
Distillate fuel oil	85	57	67	74	71	55	59	64	70	66	80	90	838
Liquefied gases	137	120	97	18	15	13	13	50	38	44	86	121	752
From District 3 to District 5:													
Gasoline	543	527	630	534	566	558	542	621	498	420	548	630	6,617
Kerosine	1	1	1	1	1	1	1	1	1	16	1	2	28
Distillate fuel oil	63	67	91	83	84	111	129	100	101	94	111	97	1,131
From District 4 to District 2:													
Gasoline	95	129	91	123	195	167	190	182	141	123	113	130	1,679
Kerosine	3	4	6	4	4	3	3	4	3	3	3	3	43
Distillate fuel oil	43	35	54	89	45	58	47	43	40	53	48	40	595
From District 4 to District 5:													
Gasoline	554	480	473	522	622	519	472	552	451	539	436	486	6,106
Distillate fuel oil	448	350	379	247	271	287	261	348	344	298	304	330	3,867

TABLE 55.—Stocks of gasoline in the United States in 1960, by districts and months

(Thousand barrels)

	Jan. 31	Feb. 29	Mar. 31	Apr. 30	May 31	June 30	July 31	Aug. 31	Sept. 30	Oct. 31	Nov. 30	Dec. 31
Finished gasoline: [1]												
East Coast	40,442	44,005	43,946	42,616	45,055	42,819	43,688	43,580	42,431	43,985	43,387	40,646
Appalachian No. 1	5,740	5,795	5,838	5,775	6,154	5,890	5,986	5,751	5,712	5,402	5,165	5,459
Appalachian No. 2	3,016	3,038	2,709	2,758	2,929	2,675	2,907	2,888	2,862	3,185	2,881	2,807
Indiana, Illinois, Kentucky, etc	35,437	39,313	41,552	39,577	36,678	33,683	31,788	30,713	30,978	29,886	28,165	30,375
Minnesota, Wisconsin, North Dakota, and South Dakota	7,197	7,010	6,544	6,115	6,575	6,905	6,664	6,466	6,102	6,630	6,834	6,894
Oklahoma, Kansas, etc	18,972	20,330	21,532	19,604	18,492	16,673	16,078	16,203	16,004	15,019	14,958	16,229
Texas Inland	7,966	8,303	7,832	7,531	7,030	6,397	6,493	6,521	6,521	6,726	6,328	6,696
Texas Gulf Coast	21,910	22,935	24,242	23,416	21,348	20,549	20,550	20,568	22,156	22,014	22,048	24,797
Louisiana Gulf Coast	11,182	10,099	11,641	11,828	10,808	10,140	10,027	9,994	10,359	9,798	10,048	10,827
Arkansas, Louisiana Inland, etc	5,634	6,241	5,955	5,889	5,695	5,468	5,559	5,667	5,328	5,630	5,251	4,642
New Mexico	893	852	867	859	821	783	821	725	776	743	782	793
Other Rocky Mountain	6,666	7,528	7,795	7,325	6,681	6,018	5,501	4,863	4,797	4,950	5,339	6,109
West Coast	28,520	29,430	29,401	29,317	29,815	27,655	26,131	23,856	23,641	23,692	24,233	24,895
Total finished gasoline	193,575	205,379	209,854	202,610	198,081	185,655	182,193	177,795	177,667	177,660	175,419	[2] 181,169
Unfinished gasoline:												
East Coast	1,414	1,206	1,387	2,199	2,167	2,121	1,923	1,599	1,634	1,701	2,067	2,123
Appalachian No. 1	195	193	212	191	205	201	184	186	176	178	192	182
Appalachian No. 2	45	28	66	52	53	56	63	57	40	63	49	75
Indiana, Illinois, Kentucky, etc	2,031	1,997	2,177	2,336	1,899	1,632	2,350	2,089	1,684	1,641	1,839	1,778
Minnesota, Wisconsin, North Dakota, and South Dakota	1	1	2	1	1	2	1	1	2	1	2	17
Oklahoma, Kansas, etc	744	753	804	761	770	761	733	616	690	636	828	799
Texas Inland	277	309	323	288	252	279	233	261	275	293	232	272
Texas Gulf Coast	4,532	4,236	4,523	4,287	3,559	4,171	4,563	4,122	3,832	3,795	4,359	4,522
Louisiana Gulf Coast	308	359	288	271	285	317	228	250	223	199	260	250
Arkansas, Louisiana Inland, etc	213	254	236	228	167	182	163	218	176	172	176	196
New Mexico	9	14	14	14	15	13	11	7	4	9	9	9
Other Rocky Mountain	202	281	280	257	282	227	220	179	210	194	231	199
West Coast	2,436	2,129	2,525	2,605	2,773	2,835	3,156	2,942	3,032	3,132	3,063	3,183
Total unfinished gasoline	12,407	11,760	12,837	13,490	12,428	12,797	13,828	12,527	11,978	12,014	13,307	13,605
Total finished and unfinished gasoline:												
East Coast	41,856	45,211	45,333	44,815	47,222	44,940	45,611	45,179	44,065	45,686	45,454	42,769
Appalachian No. 1	5,935	5,988	6,050	5,966	6,359	6,091	6,170	5,937	5,888	5,580	5,357	5,641
Appalachian No. 2	3,061	3,066	2,775	2,810	2,982	2,731	2,970	2,945	2,902	3,248	2,930	2,882
Indiana, Illinois, Kentucky, etc	37,468	41,310	43,729	41,913	38,577	35,315	34,138	32,802	32,662	31,527	30,004	32,153
Minnesota, Wisconsin, North Dakota, and South Dakota	7,198	7,011	6,546	6,116	6,576	6,907	6,665	6,467	6,104	6,631	6,836	6,911
Oklahoma, Kansas, etc	19,716	21,583	22,336	20,365	19,262	17,434	16,811	16,819	16,694	15,655	15,786	17,028

Texas Inland	8,243	8,612	8,155	7,819	7,282	6,676	6,726	6,782	6,796	7,019	6,560	6,968
Texas Gulf	26,442	27,171	28,765	27,703	24,907	24,720	25,113	24,690	25,988	25,809	26,407	29,319
Louisiana Gulf Coast	11,490	10,458	11,929	12,099	11,093	10,457	10,255	10,244	10,582	9,997	10,308	11,077
Arkansas, Louisiana Inland, etc	5,847	6,495	6,191	6,117	5,862	5,650	5,722	5,885	5,504	5,802	5,427	4,838
New Mexico	902	866	881	873	836	796	832	732	780	752	791	802
Other Rocky Mountain	6,868	7,809	8,075	7,582	6,963	6,245	5,721	5,042	5,007	5,144	5,570	6,308
West Coast	30,956	31,559	31,926	31,922	32,588	30,490	29,287	26,798	26,673	26,824	27,296	28,078
Total: 1960 [1]	205,982	217,139	222,691	216,100	210,509	198,452	196,021	190,322	189,645	189,674	188,726	194,774
1959 [3]	199,674	210,848	219,105	210,951	206,175	196,562	185,743	182,405	174,580	174,823	181,556	187,613
1959 [4]	199,075	210,367	218,612	210,395	205,640	196,078	185,294	181,921	174,128	174,277	181,016	187,115

[1] Includes stocks of finished gasoline at refineries and bulk terminals and in pipelines.
[2] Includes 5,171,000 barrels of naphtha.
[3] Includes stocks located at bulk terminals in Alaska and Hawaii.
[4] Includes stocks located at bulk terminals in Alaska.

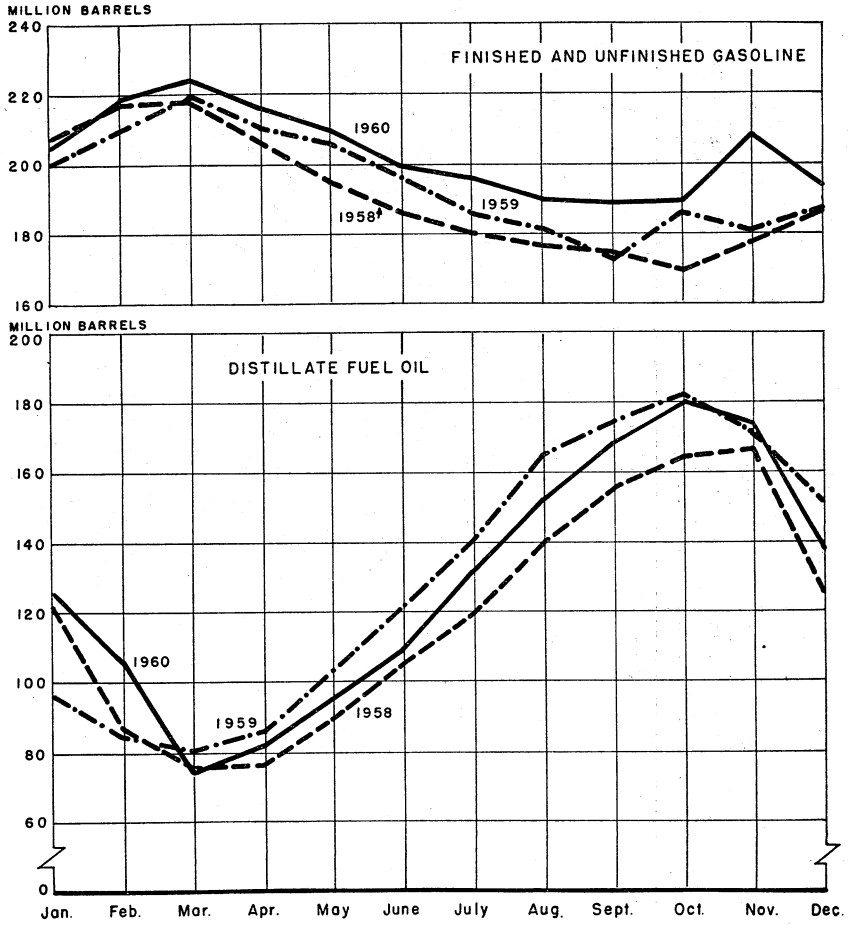

FIGURE 8.—Stocks of finished and unfinished gasoline and stocks of distillate fuel oil in the United States, 1958–60, by months.

TABLE 56.—Day's supply of gasoline on hand in the United States at end of month [1]

	1958	1959	1960 [2]		1958	1959	1960 [2]
January	58.4	54.8	54.4	July	41.8	42.7	43.6
February	60.7	54.2	55.3	August	42.9	41.3	44.0
March	53.4	51.5	51.1	September	42.2	44.0	46.2
April	49.6	50.5	51.0	October	45.0	44.5	45.3
May	45.4	45.5	45.0	November	44.8	44.8	46.6
June	42.8	43.6	44.9	December	50.0	51.8	52.3

[1] Stocks divided by daily average total demand (domestic demand plus exports) for succeeding month.
[2] Preliminary figures.

Prices.—The dealer's average net price for Regular Grade gasoline (exclusive of dealer's margin and sales tax) in 55 representative cities in the United States provides an index of wholesale gasoline prices. The average service station price (excluding taxes) decreased from 21.18 cents in 1959 to 20.99 cents in 1960. The average tax on gasoline in 1960 was 10.14 cents per gallon. This includes a 4 cent per gallon federal tax, an average state tax of 6.07 cents, and a local tax of 0.07 cent per gallon.

TABLE 57.—Average monthly prices of gasoline in the United States, 1959–60

(Cents per gallon)

Monthly average—	Jan.	Feb.	Mar.	Apr.	May	June	July
1959:							
At refineries in Oklahoma, regular, 91 octane [1]	12.48	12.38	12.57	12.75	12.63	12.32	12.08
Of 55 cities on 1st of month:							
Dealer's net (excluding tax)	15.79	15.95	15.83	16.31	16.10	16.13	16.06
Service station (including State, local, and Federal taxes)	29.51	29.89	30.06	30.32	30.17	30.26	30.44
1960:							
At refineries in Oklahoma, regular, 91 octane	11.15	11.34	11.82	12.00	11.60	12.17	12.73
Of 55 cities on 1st of month:							
Dealer's net (excluding tax)	15.72	15.46	15.61	15.37	15.82	15.74	16.14
Service station (including State, local, and Federal taxes)	30.78	30.38	30.32	30.33	30.83	30.92	31.30

Monthly average—	Aug.	Sept.	Oct.	Nov.	Dec.	Average for year
1959:						
At refineries in Oklahoma, regular, 91 octane [1]	12.62	12.55	12.00	11.86	11.56	12.32
Of 55 cities on 1st of month:						
Dealer's net (excluding tax)	16.35	16.48	16.39	15.78	16.05	16.09
Service station (including State, local, and Federal taxes)	30.83	30.91	31.49	30.82	31.20	30.49
1960:						
At refineries in Oklahoma, regular, 91 octane	13.30	13.38	13.38	13.38	13.38	12.47
Of 55 cities on 1st of month:						
Dealer's net (excluding tax)	16.72	16.65	16.60	16.54	16.54	16.08
Service station (including State, local, and Federal taxes)	31.90	31.92	31.70	31.46	31.66	31.13

[1] 89 octane Regular-Grade gasoline before July 1.

Source: Platt's Oil Price Handbook and Platt's Oilgram Price Service.

KEROSINE

The total demand for kerosine in 1960 was 133.2 million barrels, including a domestic demand of 132.5 million barrels and exports of 0.7 million barrels. Beginning with 1960 data, all fuel used in commercial jet aircraft is included with data on kerosine. In prior years, some of this fuel, which is a straight kerosine, was included under jet fuel. Because of the change in reporting procedure, it is difficult to make an accurate comparison of current data with previous years. Sales of kerosine for jet fuel were 33.2 million barrels in 1960. In 1959, the total sales of jet fuel for use in commercial aircraft were 14.4 million barrels. Thus kerosine used in commercial jet planes more than doubled in 1960, and the demand for normal uses of kerosine decreased about 8 percent.

The average posted price of kerosine at Oklahoma refineries in 1960 was 10.11 cents, a decline of 0.18 cent for the year. The posted price on barges in New York Harbor dropped from 10.61 cents in 1959 to 10.54; the tank-wagon price in New York City increased 0.15 cent. The tank-wagon price in Chicago remained unchanged throughout the year.

Tanker rates for kerosine from the gulf coast to U.S. destinations north of Cape Hatteras increased from 34.4 cents per barrel in 1959 to 35.3 cents in 1960.

Pipeline deliveries of kerosine totaled 53.2 million barrels in 1960, compared with 47.7 million in 1959. Waterborne shipments from the gulf coast to the east coast district totaled 44.1 million barrels, a 4.6 percent increase for the year.

TABLE 58.—Salient statistics of kerosine in the United States, 1959–60, by months and districts

(Thousand barrels unless otherwise stated)

Month and district	Production	Yield (percent)	Transfers from gasoline plants	Imports	Exports	Stocks (end of period)	Domestic demand	Production	Yield (percent)	Transfers from gasoline plants	Imports	Exports	Stocks (end of period)	Domestic demand	Shipments for commercial jet aircraft [1]
	1959							1960 [2]							
Month:															
January	12,978	5.0	117	--------	76	21,090	17,978	13,547	5.3	99	--------	106	26,510	14,753	1,898
February	11,686	5.0	77	--------	26	19,725	13,102	10,408	4.5	110	--------	93	23,020	13,915	2,078
March	9,484	3.7	90	113	42	18,688	10,682	11,353	4.5	101	--------	76	18,440	15,958	2,174
April	8,269	3.6	51	--------	33	21,003	5,972	9,745	4.1	65	--------	35	20,547	7,668	2,351
May	7,574	3.1	49	--------	23	24,597	4,006	9,853	4.0	69	--------	76	24,217	6,176	2,952
June	7,314	3.0	64	--------	71	27,364	4,540	9,759	3.9	62	--------	19	27,354	6,665	2,854
July	6,967	2.8	89	--------	41	28,328	6,051	11,164	4.3	74	--------	26	30,499	8,067	2,960
August	7,264	2.9	63	--------	77	31,221	4,357	11,397	4.4	73	--------	157	33,379	8,433	3,020
September	8,305	3.5	51	1	155	31,562	7,861	10,776	4.3	106	18	7	35,408	8,864	3,159
October	8,886	3.7	47	--------	47	32,396	8,052	11,993	4.9	69	--------	18	36,977	10,475	3,272
November	9,992	4.1	74	--------	52	30,701	11,709	12,401	5.1	92	39	11	36,722	12,776	3,257
December	11,943	4.7	96	--------	387	[3] 26,817	15,536	13,376	5.2	150	29	63	31,445	18,769	3,184
Total	110,662	3.8	868	114	1,030	[3] 26,817	109,846	135,772	4.6	1,070	86	687	31,445	132,519	33,159
District:															
East Coast	11,765	2.6	----------	114		11,520		12,893	2.9	----------		69	12,102		
Appalachian No. 1	1,367	3.9	----------			702		1,288	3.6	----------	86		743		
Appalachian No. 2	2,083	5.5	----------	--------		385		1,907	5.1	----------	--------		444		
Indiana, Illinois, Kentucky, etc	25,342	4.7	----------	--------		5,716		27,143	5.0	----------	--------	49	6,256		
Minnesota, Wisconsin, North Dakota, etc	1,829	4.8	----------	--------		1,122		1,958	4.4	----------	--------		1,206		
Oklahoma, Kansas, etc	4,993	1.8	----------	--------		1,227		5,155	1.9	----------	--------		1,304		
Texas Inland	2,965	2.8	404	--------	(4)	481	(4)	3,392	3.1	498	--------		592	(4)	23,491
Texas Gulf Coast	35,238	5.4	166	--------		2,657		44,455	6.6	205	--------		3,358		
Louisiana Gulf Coast	20,602	7.9	108	--------		1,763		22,172	9.0	133	--------	448	2,228		
Arkansas, Louisiana Inland, etc	1,518	4.6	169	--------		528		2,078	5.2	208	--------		1,219		
New Mexico	145	1.6	21	--------		60		120	1.4	26	--------		46		
Rocky Mountain	1,196	1.1	----------	--------		264		1,169	1.1	----------	--------		318		
West Coast	1,619	.4	----------	--------		392		12,042	2.8	----------	--------	121	1,629		9,668
Total	110,662	3.8	868	114	1,030	[3] 26,817	109,846	135,772	4.6	1,070	86	687	31,445	132,519	33,159

[1] Included in total demand for kerosine for 1960. Comparable figures for 1959 are not available.

[2] Preliminary data. Data for 1960 includes Hawaii; details of Hawaii for 1959 are in table 5.

[3] For comparison with 1960—includes 867,000 barrels of commercial jet fuel stocks, which were transferred to kerosine from jet fuel.

[4] Not available.

TABLE 59.—Sales of kerosine in the United States, 1959–60, by PAD districts, States, and uses

(Thousand barrels)

District and State	Sold as range oil		Tractor fuel		All other uses		Total	
	1959	1960	1959	1960	1959	1960	1959	1960
District 1:								
Connecticut	2,371	1,624	21	-------	545	286	2,937	1,910
Delaware	905	922	6	6	56	36	967	964
District of Columbia	123	134	1	3	15	24	139	161
Florida	3,798	3,360	26	24	714	571	4,538	3,955
Georgia	1,104	1,001	163	130	537	420	1,804	1,551
Maine	2,634	2,218	16	10	296	62	2,946	2,290
Maryland	2,556	2,327	26	30	145	83	2,727	2,440
Massachusetts	5,486	5,409	27	3	230	295	5,743	5,707
New Hampshire	939	831	5	7	33	3	977	841
New Jersey	2,730	2,109	27	1	514	353	3,271	2,463
New York	5,555	4,833	60	25	692	434	6,307	5,292
North Carolina	10,888	10,825	13	24	1,816	1,219	12,717	12,068
Pennsylvania	3,250	3,134	202	34	730	333	4,182	3,501
Rhode Island	1,106	869	27	13	40	2	1,173	884
South Carolina	3,815	3,718	11	18	972	744	4,798	4,480
Vermont	916	803	-------	1	59	13	975	817
Virginia	5,196	4,844	31	23	282	162	5,509	5,029
West Virginia	197	163	3	3	146	109	346	275
Total	53,569	49,124	665	355	7,822	5,149	62,056	54,628
District 2:								
Illinois	3,234	3,563	70	26	2,242	1,770	5,546	5,359
Indiana	3,872	3,785	5	-------	354	107	4,231	3,892
Iowa	2,552	2,390	10	22	187	170	2,749	2,582
Kansas	485	395	36	29	250	271	771	695
Kentucky	1,208	1,207	47	5	495	370	1,750	1,582
Michigan	6,596	2,790	64	5	831	1,269	7,491	4,064
Minnesota	2,204	2,320	18	23	264	222	2,486	2,565
Missouri	2,261	1,802	41	27	435	254	2,737	2,083
Nebraska	563	479	20	14	150	183	733	676
North Dakota	921	858	5	2	43	42	969	902
Ohio	2,181	2,768	52	25	1,096	1,155	3,329	3,948
Oklahoma	150	199	51	44	251	187	452	430
South Dakota	939	901	-------	8	60	64	999	973
Tennessee	1,307	1,287	33	50	1,168	1,282	2,508	2,619
Wisconsin	2,623	2,168	5	3	1,086	787	3,714	2,958
Total	31,096	26,912	457	283	8,912	8,133	40,465	35,328
District 3:								
Alabama	263	595	12	68	135	381	410	1,044
Arkansas	70	209	43	99	140	256	253	564
Louisiana	47	235	32	139	346	551	425	925
Mississippi	21	68	15	31	139	298	175	397
New Mexico	48	235	17	33	125	216	190	484
Texas	302	743	157	288	1,417	2,354	1,876	3,385
Total	751	2,085	276	658	2,302	4,056	3,329	6,799
District 4:								
Colorado	280	165	12	10	103	101	395	276
Idaho	97	102	-------	-------	12	5	109	107
Montana	505	465	4	-------	35	11	544	476
Utah	16	16	-------	-------	62	20	78	36
Wyoming	92	43	8	-------	76	48	176	91
Total	990	791	24	10	288	185	1,302	986
District 5:								
Alaska	3	-------	-------	1	32	89	35	90
Arizona	-------	-------	-------	-------	28	64	28	64
California	81	76	-------	-------	1,074	939	1,155	1,015
Hawaii	(1)	23	(1)	-------	(1)	68	(1)	91
Nevada	-------	-------	-------	-------	4	3	4	3
Oregon	1	1	-------	-------	32	44	33	45
Washington	-------	-------	-------	-------	87	105	87	105
Total	85	100	-------	1	1,257	1,312	1,342	1,413
Total United States	86,491	79,012	1,422	1,307	20,581	18,835	108,494	99,154

[1] Not included in U.S. totals before 1960.

TABLE 60.—Monthly average prices of kerosine in the United States, 1959–60, in cents per gallon

Year and grade	January	February	March	April	May	June	July
1959:							
42°–44° gravity, water-white kerosine at refineries, Oklahoma	10.76	11.13	10.99	10.77	10.47	10.03	9.90
Kerosine (and No. 1 fuel oil) at New York Harbor	11.45	11.70	11.70	11.33	11.15	10.25	10.10
Kerosine, tank-wagon at Chicago	17.10	17.10	17.10	17.10	17.10	17.10	17.10
Kerosine, tank-wagon at New York City [1]	16.30	16.30	16.30	15.80	15.50	15.20	14.70
1960:							
42°–44° gravity, water-white kerosine at refineries, Oklahoma	10.56	10.20	9.83	9.41	9.38	9.42	9.70
Kerosine (and No. 1 fuel oil) at New York Harbor	11.21	11.05	10.50	10.50	10.50	10.41	10.50
Kerosine, tank-wagon at Chicago	17.10	17.10	17.10	17.10	17.10	17.10	17.10
Kerosine, tank-wagon at New York City [1]	15.90	15.30	15.30	15.30	15.30	15.30	15.30

Year and grade	August	September	October	November	December	Average for year
1959:						
42°–44° gravity, water-white kerosine at refineries, Oklahoma	9.69	9.63	9.63	9.96	10.59	10.29
Kerosine (and No. 1 fuel oil) at New York Harbor	9.88	9.80	9.80	9.80	10.40	10.61
Kerosine, tank-wagon at Chicago	17.10	17.10	17.10	17.10	17.10	17.10
Kerosine, tank-wagon at New York City [1]	14.40	14.40	14.40	14.40	15.40	15.30
1960:						
42°–44° gravity, water-white kerosine at refineries, Oklahoma	10.30	10.56	10.56	10.56	10.89	10.11
Kerosine (and No. 1 fuel oil) at New York Harbor	10.50	10.50	10.50	10.22	10.66	10.54
Kerosine, tank-wagon at Chicago	17.10	17.10	17.10	17.10	17.10	17.10
Kerosine, tank-wagon at New York City [1]	15.30	15.60	15.60	15.30	15.90	15.45

[1] Manhattan and Queens.

Source: Platt's Oil Price Handbook.

DISTILLATE FUEL OIL

The total demand for distillate fuel oil in 1960 was 3.4 percent higher than in 1959. Domestic demand increased 26.0 million barrels to 686.0 million for the year, and exports declined from 12.7 million barrels in 1959 to 9.8 million in 1960. Domestic demand for January and February was 6.1 percent below 1959 levels, but extremely cold weather in March increased demand for the month to such an extent that the demand for the first quarter of 1960 exceeded the same period of 1959 by 4.0 percent. A similar situation occurred in the last quarter of the year when the weather for October and November was warmer than normal and December was abnormally cold. The fourth-quarter domestic demand was 4.7 percent more than in 1959.

The new supply of distillate fuel oil includes refinery output, production from natural-gas liquids plants, direct transfers from crude oil, and imports. A stock reduction of 12.7 million barrels was required in 1960 to balance the new supply with the total demand.

TABLE 61.—Salient statistics of distillate fuel oil in the United States, 1959–60, by months and districts

[Thousand barrels unless otherwise stated]

Month and district	Production	Yield (percent)	Transfers		Imports	Exports	Stocks (end of month)	Domestic demand	Production	Yield (percent)	Transfers		Imports	Exports	Stocks (end of month)	Domestic demand
			from gasoline plants	from crude oil [1]							from gasoline plants	from crude oil [1]				
	1959								1960 [2]							
Month:																
January	66,124	25.3	58	89	1,650	1,273	96,849	95,307	59,874	23.2	92	173	1,610	789	125,924	86,200
February	60,458	25.6	46	83	1,674	843	84,071	74,196	51,877	22.2	69	81	1,095	981	105,015	73,050
March	61,610	24.1	63	89	3,505	1,430	80,662	67,246	55,690	22.4	71	78	1,229	998	73,948	87,137
April	52,181	22.5	47	82	1,877	965	86,222	47,662	52,300	21.9	73	78	1,520	779	81,755	45,385
May	54,295	22.4	42	81	811	1,105	102,863	37,483	53,841	22.1	77	72	1,342	1,176	95,461	40,450
June	53,745	22.0	47	79	1,801	1,251	120,962	36,322	53,338	21.7	75	70	1,148	1,163	109,174	39,755
July	53,279	21.8	56	75	1,055	906	140,388	34,133	56,773	22.0	64	72	796	916	131,044	34,919
August	55,921	22.1	53	74	818	1,682	164,134	31,438	58,081	22.4	69	79	773	751	152,158	37,137
September	52,355	22.0	67	72	1,181	989	174,148	42,672	54,928	22.2	238	73	1,005	484	168,235	39,683
October	53,816	22.6	73	77	675	865	181,840	46,084	56,262	22.9	348	69	897	580	180,071	45,160
November	55,044	22.9	62	79	822	851	171,114	65,882	54,877	22.8	382	74	621	556	173,913	61,556
December	60,110	23.4	89	90	1,789	1,195	151,030	80,967	59,209	23.2	339	82	1,097	641	138,455	95,544
Total	678,938	23.1	703	970	17,658	13,355	151,030	659,392	667,050	22.4	1,897	1,001	13,133	9,814	138,455	685,976
District:																
East Coast	125,597	28.0			17,283		57,981		120,615	27.3			11,421	282	50,870	
Appalachian No. 1	7,848	22.2					4,182		7,936	22.4					3,730	
Appalachian No. 2	6,893	18.3					1,584		6,892	18.6					1,517	
Indiana, Illinois, Kentucky, etc	115,715	21.6		277	13		24,532		114,715	21.3		241	12	1,150	23,863	
Minnesota, Wisconsin, etc	9,373	24.6		27			6,852		10,639	23.9		116			7,145	
Oklahoma, Kansas, etc	67,287	25.5		163		(3)	11,300	(3)	65,120	24.5		244			12,370	(3)
Texas Inland	17,761	16.8	342	161			1,805		17,801	16.3	922	112			1,707	
Texas Gulf Coast	169,187	26.1	95	95			17,836		168,100	25.1	256	73			12,893	
Louisiana Gulf Coast	61,528	23.6	17	51	360		6,088		53,182	21.6	46	32	1,298	1,508	5,568	
Arkansas, Louisiana Inland, etc	7,194	21.9	249	31			2,673		8,106	20.3	673	16			2,737	
New Mexico	1,669	19.0		85	2		183		1,521	17.9		69	96	36	161	
Rocky Mountain	22,700	21.5		80			2,492		23,878	22.9		98			2,692	
West Coast	66,186	15.7					13,522		68,545	15.8			306	6,838	13,202	
Total	678,938	23.1	703	970	17,658	13,355	151,030	659,392	667,050	22.4	1,897	1,001	13,133	9,814	138,455	685,976

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

[2] Preliminary data. Data for 1960 includes Hawaii; for details of Hawaii for 1959 see, table 5.

[3] Not available.

The annual average of posted prices for distillate fuel oil, as shown in Platt's Oil Price Handbook, was below the 1959 level at Oklahoma refineries and in New York Harbor. Prices quoted for diesel oil for use as ships' bunkers averaged 8 cents per barrel lower in New York for the year and 15 cents per barrel lower at New Orleans, but 2 cents per barrel higher at San Pedro, California.

The tanker freight rate for No. 2 distillate fuel oil from the gulf coast to New York Harbor averaged 37.4 cents per barrel in 1960, compared with 36.1 cents in 1959.

Tidewater shipments of distillate fuel oil from the gulf coast and west coast ports totaled 175.2 million barrels in 1960—a gain of 2.9 percent over 1959. Pipeline deliveries of distillate fuel oil increased from 225.6 million barrels in 1959 to 232.9 million in 1960.

TABLE 62.—Sales of distillate fuel oil [1] in the United States, 1956–60, by uses

(Thousand barrels)

Uses	1956	1957	1958	1959	1960 [2]	Change, percent
Heating oils	359,827	360,212	399,153	401,368	422,855	5.4
Range oil (No. 1 fuel oil)	17,435	16,832	13,517	14,153	15,155	7.1
Industrial (excluding oil-company use)	44,949	43,532	37,553	33,380	34,271	2.7
Oil-company use (excluding heating oil)	10,131	10,419	7,815	8,642	8,347	−3.4
Gas and electric public utility power-plants	5,403	5,296	5,382	5,005	4,742	−5.3
Railroads	89,439	88,315	83,719	87,802	86,490	−1.5
Bunkering of vessels (including company tankers but excluding military)	18,487	20,420	18,768	19,250	18,730	−2.7
Military use (U.S. Army, Navy, Air Force and Marine Corps)	11,326	12,737	13,412	11,394	10,793	−5.3
Miscellaneous uses:						
Diesel fuel	48,870	49,684	65,186	70,527	74,562	5.7
Other distillates	9,908	9,828	9,054	7,471	7,380	−1.2
Total United States	615,775	617,275	653,559	658,992	683,325	3.7

[1] Includes diesel fuel.
[2] Includes Hawaii.

TABLE 63.—Sales of distillate fuel oil [1] in the United States, by PAD districts and States

(Thousand barrels)

District and State	1956	1957	1958	1959	1960
District 1:					
Connecticut	18,490	18,574	23,885	22,176	23,230
Delaware	3,235	3,245	2,413	2,487	2,723
District of Columbia	4,139	4,124	3,402	2,719	2,914
Florida	10,169	10,188	8,150	8,190	8,971
Georgia	4,914	4,877	4,887	4,731	5,117
Maine	6,425	6,426	6,434	7,108	7,456
Maryland	17,916	18,091	16,086	12,495	13,101
Massachusetts	35,859	35,981	47,452	47,781	51,022
New Hampshire	5,123	5,089	3,951	4,049	4,484
New Jersey	41,335	41,370	42,923	45,634	45,542
New York	72,606	72,755	85,779	79,499	81,677
North Carolina	9,279	9,312	10,406	11,544	13,353
Pennsylvania	45,734	45,698	45,322	44,029	45,668
Rhode Island	5,513	5,530	7,250	7,167	8,093
South Carolina	3,445	3,588	4,266	4,454	5,203
Vermont	1,937	1,883	2,796	2,399	2,939
Virginia	14,293	14,782	13,300	12,984	14,184
West Virginia	2,095	2,039	1,913	2,154	2,462
Total	302,507	303,552	330,615	[2] 321,600	338,139
District 2:					
Illinois	35,290	35,350	42,869	43,008	42,490
Indiana	20,441	20,482	24,099	24,500	25,596
Iowa	12,543	12,548	9,883	11,360	11,141
Kansas	6,388	6,361	4,477	5,060	4,751
Kentucky	4,476	4,548	4,978	5,800	4,833
Michigan	29,071	28,995	29,385	28,387	30,464
Minnesota	18,765	18,726	16,468	15,079	16,241
Missouri	12,306	12,418	14,274	12,700	12,830
Nebraska	5,561	5,549	3,527	3,929	4,183
North Dakota	3,740	3,726	2,976	3,632	3,775
Ohio	21,937	22,045	24,221	24,850	23,836
Oklahoma	2,454	2,470	1,754	2,603	2,631
South Dakota	3,556	3,508	2,800	2,882	2,964
Tennessee	3,767	3,652	3,226	5,037	5,268
Wisconsin	17,099	17,149	20,136	20,316	21,711
Total	197,394	197,527	205,073	[2] 209,143	212,714
District 3:					
Alabama	4,277	4,326	4,346	4,891	5,370
Arkansas	2,558	2,575	2,433	2,175	2,052
Louisiana	7,653	7,877	10,756	11,249	10,694
Mississippi	1,840	1,856	1,744	2,318	2,364
New Mexico	2,167	2,205	2,492	2,302	3,065
Texas	22,258	22,812	24,077	26,541	24,315
Total	40,753	41,651	45,848	49,476	47,860
District 4:					
Colorado	3,532	3,585	3,238	3,099	4,225
Idaho	3,837	3,834	3,938	3,734	4,055
Montana	4,219	4,209	3,642	4,474	4,877
Utah	4,235	4,256	4,655	3,478	3,841
Wyoming	3,092	2,977	3,697	3,539	3,258
Total	18,915	18,861	19,170	18,324	20,256
District 5:					
Alaska	[3]	[3]	[3]	2,618	2,616
Arizona	1,716	1,742	2,018	2,100	2,774
California	24,643	24,613	24,884	26,357	26,697
Hawaii	[4]	[4]	[4]	[4]	876
Nevada	1,748	1,679	1,656	2,051	2,428
Oregon	10,862	10,132	9,380	10,456	10,920
Washington	17,237	17,518	14,915	16,867	18,045
Total	56,206	55,684	52,853	60,449	64,356
Total United States	615,775	617,275	653,559	658,992	683,325

[1] Includes diesel fuel oil.
[2] Revised.
[3] Not included in United States totals before 1959
[4] Not included in United States totals before 1960

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TABLE 64.—Monthly average prices of distillate fuel oil and diesel fuel in the United States

Year and grade	January	February	March	April	May	June	July	August	September	October	November	December	Average for year
1959:													
No. 2 fuel oil at refineries, Oklahoma.....cents per gallon..	9.66	10.00	9.83	9.59	9.24	8.93	8.72	8.54	8.25	8.34	8.82	9.48	9.12
No. 2 fuel oil at New York harbor cents per cents.....	11.45	11.20	11.20	10.83	10.65	9.75	9.60	9.38	9.30	9.30	9.30	9.79	10.15
Diesel oil, shore plants, New York.....cents per gallon..	11.38	11.60	11.60	11.23	11.05	10.15	10.00	9.75	9.65	9.65	9.65	10.13	10.49
Diesel oil for ships:													
New York.dollars per barrel..	4.64	4.73	4.73	4.57	4.52	4.13	4.06	3.96	3.93	3.93	3.93	4.14	4.27
New Orleans.....do....	4.43	4.44	4.44	4.28	4.13	3.94	3.88	3.86	3.77	3.77	3.77	3.90	4.05
San Pedro.....do....	4.96	4.96	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.07
1960:													
No. 2 fuel oil at refineries, Oklahoma.....cents per gallon..	9.42	8.91	8.47	8.13	8.00	8.13	8.57	8.95	9.13	9.13	9.13	9.45	8.78
No. 2 fuel oil at New York Harbor.....cents per gallon..	10.21	10.05	9.50	9.50	9.50	9.41	9.35	9.35	9.38	9.45	9.58	9.61	9.57
Diesel oil, shore plants, New York.....cents per gallon..	10.57	10.35	9.85	9.85	9.85	9.69	9.55	9.55	9.63	9.85	9.57	9.98	9.86
Diesel oil for ships:													
New York.dollars per barrel..	4.32	4.28	4.14	4.14	4.14	4.14	4.14	4.14	4.19	4.27	4.14	4.28	4.19
New Orleans.....do....	4.01	3.97	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.95	3.90
San Pedro.....do....	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09

Source: Platt's Oil Price Handbook.

RESIDUAL FUEL OIL

The total demand for residual fuel oil averaged 1,582,000 barrels per day in 1960, compared with 1,601,000 barrels per day in 1959. Domestic demand declined 0.6 percent, and exports were 10.9 percent lower for the year.

The supply of residual available from domestic sources in 1960 totaled 336.1 million barrels, which included a 332.1 million barrel refinery output and 3.9 million barrels of crude used directly as fuel oil. The total domestic supply in 1959 was 355.3 million barrels. The difference between the 1960 demand and the domestic supply of residual fuel oil was met by imports of 234.1 million barrels and withdrawal from stocks of 8.6 million barrels.

Most of the reduction of residual fuel oil stocks, which occurred in 1960, was in the west coast district (8.3 million barrels of the U.S. total of 8.6 million) where total demand increased 13,000 barrels daily.

Total imports of residual averaged 640,000 barrels per day in 1960, compared with 610,000 barrels daily in 1959. Imports for use as fuel averaged about 450,000 barrels daily for the year, compared with 495,000 barrels daily in 1959. Residual to be used for fuel is the only part of residual imports controlled by the Oil Import Administration. That used for bunkering ships engaged in foreign trade, used offshore by the military, or used for manufacture and reexport is not counted against the quota.

The total sales of residual fuel oil and the total domestic demand for residual shown in this chapter do not agree. The latter includes some duplicate reporting of imported residual fuel oil withdrawn from bonded storage for bunkering vessels engaged in foreign trade. It is estimated that these duplications, which occurred in PAD District I, were 11,000,000 barrels in 1960. Data on the imports of residual fuel oil used in arriving at the demand are from records compiled by the Bureau of the Census.

Shipment of residual from the gulf coast to the east coast district was 6.6 million barrels higher in 1960 and reflects the shift to using imported residual for bunkering at gulf coast ports, thus, releasing domestic residual for shipment to the east coast markets. Residual shipped from the west coast district to the east coast totaled 5.8 million barrels in 1960, compared with 5.1 million in 1959.

The average tanker rate for Bunker "C" fuel oil from the gulf coast district to destinations north of Cape Hatteras declined from 44.8 cents per barrel in 1959 to 30.5 cents per barrel in 1960.

The 1960 annual average of posted prices of No. 6 residual fuel oil at Oklahoma refineries was 8 cents per barrel less than 1959, but the posted prices for No. 5 oil at New York Harbor increased 5 cents per barrel. Posted prices on Bunker "C" oil were 9 cents per barrel higher at New Orleans, 7 cents more at New York, and 3 cents more at San Pedro, California.

TABLE 65.—Salient statistics of residual fuel oil in the United States, 1959–60, by months and districts

(Thousand barrels unless otherwise stated)

Month and district	Production	Yield (percent)	Transfers [1]		Imports	Exports	Stocks (end of month)	Domestic demand	Production	Yield (percent)	Transfers [1]		Imports	Exports	Stocks (end of month)	Domestic demand
			East of California	California							East of California	California				
	1959								1960 [2]							
Month:																
January	34,622	13.3	995	58	26,241	3,234	55,214	63,028	32,452	12.6	245	51	26,366	1,728	49,306	61,581
February	31,493	13.3	845	53	26,476	2,345	54,178	57,558	28,938	12.4	316	55	24,649	1,685	45,775	55,804
March	32,569	12.7	942	96	31,394	2,703	57,210	59,266	31,065	12.5	300	41	25,790	1,767	40,503	60,701
April	28,104	12.1	629	102	15,066	2,572	53,327	45,212	26,410	11.1	312	21	19,567	1,688	39,285	45,840
May	27,874	11.5	427	58	14,293	1,950	55,821	38,208	26,072	10.7	354	57	15,590	1,484	39,628	40,246
June	27,448	11.3	396	84	14,734	2,499	55,479	40,505	25,297	10.3	319	31	17,098	1,967	41,074	39,332
July	25,514	10.4	419	38	12,122	2,145	54,509	36,918	26,265	10.2	224	39	13,955	875	43,843	36,834
August	27,393	10.8	416	32	12,211	1,554	57,855	35,152	26,125	10.0	235	131	14,966	1,888	47,177	36,240
September	25,581	10.7	372	70	14,377	1,887	59,429	36,939	25,779	10.4	316	41	15,523	1,357	50,136	37,343
October	26,949	11.3	348	66	12,867	2,403	59,506	37,750	25,755	10.6	224	44	15,076	1,283	50,003	40,849
November	29,147	12.1	354	24	20,311	1,339	58,587	49,416	27,116	11.3	283	51	21,885	1,304	49,525	48,509
December	31,206	12.2	527	35	22,479	1,409	53,261	58,164	30,873	12.1	244	14	22,780	1,515	44,870	57,051
Total	347,900	11.8	6,670	716	222,571	26,040	53,261	558,116	332,147	11.2	3,372	576	234,145	18,541	44,870	560,330
District:																
East Coast	61,657	13.8	1,940	----	219,341		13,092		55,686	12.6	228	----	212,701	122	12,140	
Appalachian No. 1	3,440	9.7	----	----			386		3,844	10.8	----	----			529	
Appalachian No. 2	4,589	12.2	----	----			440		4,485	12.1	----	----			367	
Indiana, Illinois, Kentucky, etc.	62,311	11.6	1,902	----	230		5,634		60,369	11.2	511	----	59	878	6,053	
Minnesota, Wisconsin, etc.	4,831	12.7	65	----			751		6,532	14.6	40	----			582	
Oklahoma, Kansas, etc.	9,200	3.5	360	----		(3)	1,067	(3)	8,486	3.2	360	----			995	(3)
Texas Inland	7,714	7.3	489	----			2,392		7,417	6.8	429	----			2,551	
Texas Gulf Coast	57,891	8.9	615	----			5,193		51,212	7.6	566	----			5,184	
Louisiana Gulf Coast	18,018	6.9	751	----	2,981		925		16,784	6.8	688	----	14,440	3,675	1,301	
Arkansas, Louisiana Inland, etc.	2,211	6.7	216	----			239		2,403	6.0	218	----			155	
New Mexico	892	10.1	80	----			31		881	10.4	80	----			27	
Rocky Mountain	12,512	11.8	252	----	1		1,083		11,505	11.0	252	----	----	2	1,002	
West Coast	102,634	24.4	----	716	18		22,028		102,543	23.7	----	576	6,945	13,864	13,984	
Total	347,900	11.8	6,670	716	222,571	26,040	53,261	558,116	332,147	11.2	3,372	576	234,145	18,541	44,870	560 33)

[1] Represents crude oil used as fuel on leases and for general industrial purposes.
[2] Preliminary data. Data for 1960 includes Hawaii; for details of Hawaii for 1959 see table 5.
[3] Not available.

TABLE 66.—Sales of residual fuel oil [1] in the United States, 1956–60, by uses

(Thousand barrels)

	1956	1957	1958	1959	1960 [2]	Change, percent
Heating oils	87,601	81,412	105,639	111,850	125,088	11.8
Industrial (excluding oil company fuel)	177,807	166,885	143,142	167,701	157,270	−6.2
Oil-company use (excluding heating oil)	53,271	50,153	46,463	46,177	45,061	−2.4
Gas and electric public utility powerplants	73,987	76,577	76,995	82,208	85,408	3.9
Railroads	10,575	6,953	5,772	5,613	5,610	----------
Bunkering of vessels (including company tankers but excluding military)	117,445	123,651	106,269	102,049	94,084	−7.8
Military use (U.S. Army, Navy, Air Force, and Marine Corps)	30,546	28,962	37,428	31,415	31,724	1.0
Miscellaneous uses	10,331	9,984	9,659	7,339	6,291	−14.3
Total United States	561,563	544,577	531,367	554,352	550,536	−0.7

[1] Includes navy grade and crude oil burned as fuel.
[2] Includes Hawaii.

TABLE 67.—Sales of residual fuel oil [1] in the United States, by PAD districts and States

(Thousand barrels)

District and State	1956	1957	1958	1959	1960
District 1:					
Connecticut	13,219	12,712	17,041	15,814	14,450
Delaware	2,956	2,973	5,992	7,063	6,081
District of Columbia	2,106	2,501	2,243	2,450	2,387
Florida	34,910	36,228	37,470	33,310	28,978
Georgia	5,955	6,128	7,145	6,824	6,413
Maine	4,872	5,063	5,290	6,433	5,742
Maryland	15,770	15,364	14,974	17,385	16,490
Massachusetts	29,574	28,744	29,308	35,532	38,942
New Hampshire	2,107	2,096	2,022	2,984	2,324
New Jersey	44,587	45,136	36,841	41,422	42,791
New York	51,737	51,168	71,533	79,784	76,586
North Carolina	2,558	2,467	3,034	3,908	4,537
Pennsylvania	45,325	44,482	39,873	45,660	42,731
Rhode Island	11,303	11,114	11,127	10,350	9,502
South Carolina	4,389	4,383	4,660	4,886	4,634
Vermont	402	380	455	275	498
Virginia	17,452	17,739	21,411	17,703	17,448
West Virginia	1,317	1,321	894	1,620	1,451
Total	290,539	289,999	311,313	333,403	321,985
District 2:					
Illinois	22,571	21,375	26,926	23,689	25,893
Indiana	15,206	14,753	11,955	13,035	12,885
Iowa	1,165	1,125	869	1,088	1,021
Kansas	3,827	3,586	1,420	1,943	2,249
Kentucky	1,062	1,051	503	570	321
Michigan	16,008	15,330	9,340	13,498	11,242
Minnesota	2,987	2,955	4,963	6,399	6,363
Missouri	6,126	5,758	3,774	3,129	3,026
Nebraska	377	375	151	218	378
North Dakota	870	783	625	597	663
Ohio	19,260	18,530	9,721	11,028	11,382
Oklahoma	1,857	1,740	1,001	1,319	1,396
South Dakota	211	217	100	48	60
Tennessee	879	865	384	284	184
Wisconsin	2,290	2,201	3,458	4,167	4,275
Total	94,696	90,644	75,190	81,012	81,338

See footnotes at end of table.

TABLE 67.—Sales of residual fuel oil [1] in the United States, by PAD districts and States—Continued

(Thousand barrels)

District and State	1956	1957	1958	1959	1960
District 3:					
Alabama	4,162	4,203	4,240	4,178	4,202
Arkansas	545	549	455	346	474
Louisiana	10,804	11,359	13,411	10,764	8,599
Mississippi	219	232	268	435	339
New Mexico	505	438	359	107	173
Texas	37,883	37,859	29,082	25,275	22,102
Total	54,118	54,640	47,815	41,105	35,889
District 4:					
Colorado	1,434	1,369	1,330	1,603	1,790
Idaho	1,256	1,185	210	185	201
Montana	1,646	1,554	1,643	2,006	2,022
Utah	4,503	4,828	5,077	5,872	5,562
Wyoming	2,156	1,847	2,325	1,842	1,738
Total	10,995	10,783	10,585	11,508	11,313
District 5:					
Alaska	[2]	[2]	[2]	574	695
Arizona	35	21	37	34	95
California	84,421	79,245	72,232	72,287	78,774
Hawaii	[3]	[3]	[3]	[3]	5,613
Nevada	383	269	195	146	202
Oregon	9,401	7,181	5,253	5,121	5,453
Washington	16,975	11,795	8,747	9,162	9,179
Total	111,215	98,511	86,464	87,324	100,011
Total United States	561,563	544,577	531,367	554,352	550,536

[1] Includes some crude oil burned as fuel.
[2] Not included in United States totals before 1959.
[3] Not included in United States totals before 1960.

TABLE 68.—Monthly average prices of residual fuel oil in the United States, 1959–60, in dollars per barrel

Year and grade	January	February	March	April	May	June	July	August	September	October	November	December	Average for year
1959:													
No. 6 fuel oil at refineries, Oklahoma	2.02	2.18	2.18	2.15	1.94	1.88	1.88	1.88	1.88	1.88	1.88	1.93	1.97
No. 5 fuel oil at New York Harbor	2.88	2.97	2.97	2.97	2.97	2.91	2.89	2.89	2.89	2.89	2.89	2.96	2.92
Bunker "C" for ships:													
New York	2.41	2.41	2.41	2.41	2.41	2.37	2.32	2.34	2.37	2.37	2.37	2.37	2.38
New Orleans	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
San Pedro	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
1960:													
No. 6 fuel oil at refineries, Oklahoma	1.93	1.91	1.83	1.75	1.75	1.87	1.95	1.95	1.95	1.95	1.95	1.95	1.89
No. 5 fuel oil at New York Harbor	3.00	2.97	2.91	2.91	2.91	2.91	2.98	3.02	3.02	3.02	3.02	3.02	2.97
Bunker "C" for ships:													
New York	2.37	2.37	2.37	2.42	2.40	2.37	2.46	2.52	2.52	2.52	2.52	2.52	2.45
New Orleans	2.10	2.10	2.10	2.10	2.10	2.10	2.23	2.30	2.30	2.30	2.30	2.30	2.19
San Pedro	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.11	2.20	2.20	2.20	2.13

Source: Platt's Oil Price Handbook.

LUBRICANTS

While domestic demand for lubricants was less than last year, the 1960 exports increased 13.2 percent so that total demand for the year was 2.9 percent higher.

Production for the year was 59.4 million barrels—3.3 million more than in 1959.

Posted refinery prices for all grades of lubricating oils increased during 1960. These increases ranged from 0.9 cent per gallon for some grades of lubricating oils at South Texas refineries to 4.6 cents per gallon at refineries in Pennsylvania.

JET FUEL

Beginning with 1960, jet fuel reported by the Bureau of Mines refers only to fuel used by military jet aircraft, ram-jet fuels, and petroleum-base fuels for rockets. It is a product blended from gasoline, kerosine, and distillate fuel oil. This jet fuel is used by the military or by aircraft and missile manufacturers testing equipment for the U.S. Government.

The demand for jet fuel in 1960 was 103.2 million barrels. As some fuel for commercial jet planes (straight kerosine) was included in the data for prior years, an exact comparison with current demand is difficult.

LIQUEFIED GASES (INCLUDING ETHANE)

Liquefied gases are derived from two sources. Those produced at refineries are called liquefied refinery gases to distinguish them from those extracted from natural gas, which are called liquefied petroleum gases (LPG). The liquefied petroleum gases are all saturated (that is, propane, butane, etc.). The liquefied refinery gases may contain unsaturated compounds or olefins (that is, propylene, butylene, etc.). The olefins are used as feed stock for chemical plants. The saturated gases may be used as chemical raw material or as fuel. Liquefied gases are also used in producing gasoline and are reported in this chapter as natural-gas liquids used at refineries or as gasoline. While ethane and ethylene are not defined as liquefied gases, the statistics of these products are sometimes reported with those of LPG.

Liquefied gas production was 8.4 percent higher in 1960. Natural-gasoline plants produced 344.5 million barrels, and the refinery output was 77.6 million barrels. The total demand for liquefied gases in 1960 was 418.9 million barrels, of which 184.9 million was blended into gasoline, 5.3 million was transferred to other products, and 228.7 million was for fuel and chemical uses.

More detailed information on liquefied gases may be found in the Natural-Gas Liquids Chapter.

TABLE 69.—Salient statistics of lubricants in the United States, by months and districts

(Thousand barrels unless otherwise stated)

Month and district	1959					1960 [1] [2]					
	Production	Yield (percent)	Exports	Stocks, end of period	Domestic demand	Production	Yield (percent)	Imports	Exports	Stocks, end of period	Domestic demand
By months:											
January	4,360	1.7	1,053	9,494	3,502	4,895	1.9	----------	1,196	9,365	3,284
February	3,941	1.7	957	9,728	2,750	4,614	2.0	1	1,040	9,588	3,352
March	4,652	1.8	1,178	9,407	3,795	5,027	2.0	1	1,333	9,637	3,646
April	4,751	2.0	1,404	9,170	3,584	5,052	2.1	2	1,422	9,665	3,604
May	4,754	2.0	1,185	8,912	3,827	4,953	2.0	2	1,318	9,404	3,898
June	4,615	1.9	1,224	8,396	3,907	4,921	2.0	1	1,559	9,068	3,699
July	4,958	2.0	1,278	8,402	3,674	5,232	2.0	1	1,478	9,032	3,791
August	4,593	1.8	1,160	8,274	3,561	4,689	1.8	1	1,088	8,942	3,692
September	4,867	2.0	1,030	8,378	3,733	4,944	2.0	4	1,258	9,149	3,483
October	4,934	2.1	1,265	8,237	3,810	4,907	2.0	3	1,386	9,194	3,479
November	4,718	2.0	859	8,792	3,304	5,094	2.1	2	1,353	9,463	3,474
December	4,968	1.9	1,483	8,950	3,327	5,061	2.0	4	1,389	9,874	3,265
Total	56,111	1.9	14,076	8,950	42,774	59,389	2.0	22	15,820	9,874	42,667
By districts:											
East Coast	7,754	1.7		1,965		8,642	2.0			2,200	
Appalachian No. 1	3,301	9.3		502		3,366	9.5	18		558	
Appalachian No. 2	506	1.3		34		486	1.3			51	
Indiana, Illinois, Kentucky, etc.	4,502	.8		1,392		4,861	.9	----------		1,403	
Oklahoma, Kansas, etc.	4,589	1.7		410		4,754	1.8			539	
Texas Inland	135	.1	(3)	20	(3)	182	.2		(3)	17	(3)
Texas Gulf Coast	21,098	3.3		3,070		22,485	3.4	2		3,417	
Louisiana Gulf Coast	6,695	2.6		642		6,409	2.6			757	
Arkansas, Louisiana Inland, etc.	1,953	5.9		177		2,062	5.2			205	
Rocky Mountain	209	.2		87		324	.3	----------		88	
West Coast	5,369	1.3		651		5,818	1.3	2		639	
Total	56,111	1.9		8,950		59,389	2.0	22		9,874	

[1] Preliminary figures.
[2] Includes Hawaii.
[3] Figures not available.

TABLE 70.—Average monthly refinery prices of five selected grades of lubricating oil in the United States, in cents per gallon

Year and grade	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average for year
1959:													
Oklahoma:													
200 viscosity, No. 3 color, neutral	17.00	17.00	17.00	17.00	17.00	17.00	17.03	17.97	18.00	18.00	18.45	19.00	17.54
150–160 viscosity at 210° bright stock, 10–25 pour test	20.50	20.50	20.50	20.50	20.50	20.50	20.56	21.50	21.50	21.50	21.93	22.50	21.04
Pennsylvania:													
200 viscosity, No. 3 color, neutral 420–425 flash, 25 pour test	21.00	21.00	21.00	21.00	21.00	21.00	22.77	23.00	24.73	25.00	25.00	25.48	22.67
600 steam-refined, cylinder stock filterable	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.87	16.00	16.00	16.71	15.38
South Texas: 500 viscosity, No. 2½–3½ color, neutral	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.33	19.00	18.11
1960:													
Oklahoma:													
200 viscosity, No. 3 color, neutral	19.00	19.00	19.00	19.00	20.11	20.50	20.50	20.50	20.50	20.50	20.50	20.50	19.97
150–160 viscosity at 210° bright stock, 10–25 pour test	22.50	22.50	22.50	22.50	23.24	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.15
Pennsylvania:													
200 viscosity, No. 3 color, neutral 420–425 flash, 25 pour test	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.63	28.00	28.00	28.00	27.30
600 steam-refined, cylinder stock, filterable	17.00	17.91	18.00	18.00	18.00	18.00	18.00	18.66	19.00	19.00	19.00	19.00	18.30
South Texas: 500 viscosity, No. 2½–3½ color, neutral	19.00	19.00	19.00	19.00	19.00	19.47	20.00	20.00	20.00	20.00	20.00	20.00	19.54

Source: Platt's Oil Price Handbook.

TABLE 71.—Salient statistics of jet fuel in the United States, 1959–60 by months and districts

(Thousand barrels)

Month and district	Production, blended from—				Transfers from gasoline plants	Imports	Exports	Stocks, end of period	Domestic demand	Production, blended from—				Transfers from gasoline plants	Imports	Exports	Stocks, end of period	Domestic demand
	Gasoline	Kerosine	Distillate	Total						Gasoline	Kerosine	Distillate	Total					
	1959									1960 [1]								
By months:																		
January	4,499	943	670	6,112	40	2,201	--------	6,257	7,983	5,602	998	650	7,250	127	608	57	6,846	8,973
February	4,717	877	624	6,218	40	1,215	35	6,499	7,196	5,629	1,091	594	7,314	50	1,415	-------	7,041	8,584
March	5,951	1,022	985	7,958	137	851	14	7,879	7,552	5,427	1,199	646	7,272	114	863	1	6,386	8,903
April	5,372	1,145	637	7,154	79	1,307	1	7,842	8,576	5,663	1,210	564	7,437	40	580	-------	6,556	7,887
May	4,805	1,481	774	7,060	70	480	27	7,960	7,465	5,466	1,268	604	7,338	116	1,552	-------	6,810	8,752
June	5,254	1,358	719	7,331	92	515	5	7,995	7,898	5,681	1,420	793	7,894	16	1,289	1	6,753	9,255
July	5,610	1,521	843	7,974	51	952	2	7,995	8,975	5,550	1,174	804	7,528	101	1,262	20	6,892	8,732
August	6,125	2,137	782	9,044	1	697	72	8,433	9,232	5,601	1,167	1,028	7,796	33	880	4	7,343	8,254
September	5,249	2,129	821	8,199	23	2,285	14	7,937	10,989	5,099	1,034	828	6,961	78	782	10	6,431	8,723
October	5,728	2,205	855	8,788	93	643	78	8,044	9,339	5,000	1,093	805	6,898	67	907	-------	6,034	8,269
November	5,493	1,913	780	8,186	34	994	62	8,435	8,761	5,228	1,243	820	7,291	70	1,117	20	6,020	8,472
December	5,422	2,824	663	8,909	98	1,432	79	[2] 8,741	10,054	5,309	1,107	853	7,269	49	1,383	-------	6,456	8,265
Total	64,225	19,555	9,153	92,933	758	13,572	389	[2] 8,741	104,020	65,255	14,004	8,989	88,248	861	12,638	113	6,456	103,069

By districts:																		
East Coast	2,487	375	242	3,104		12,804	(2)	1,323	(2)	2,001	1,011	52	3,064		11,661	(2)	632	(2)
Appalachian No. 1	205			205				67		94			94				49	
Appalachian No. 2	87	87		124				70			400		400				59	
Indiana, Illinois, Kentucky, etc.	4,453	1,391	1,254	7,098				735		4,278	905	2,179	7,362				647	
Minnesota, Wisconsin, North and South Dakota	419	16		435				103		705	74		779				135	
Oklahoma, Kansas, Missouri, etc.	10,990	2,754	1,710	15,454				1,147		11,533	2,131	2,708	16,372				882	
Texas Inland	10,297	609	1,306	12,212	66			858		10,445	938	1,329	12,712				648	
Texas Gulf Coast	8,388	8,318	387	17,093				1,137		10,500	4,156	92	14,748				1,092	
Louisiana Gulf Coast	8,103	175	338	8,616		9		736		7,940	287	88	8,315				309	
Arkansas, Louisiana Inland, etc.	716			716	692			58		737		148	885	861			140	
New Mexico	545	17	648	1,210				106		1,338	30		1,368				86	
Rocky Mountain	4,877	1,315	566	6,758				541		3,904	856	562	5,322				394	
West Coast	12,708	4,498	2,702	19,908		759		1,360		11,780	3,216	1,831	16,827		977		1,383	
Total	64,225	19,555	9,153	92,933	758	13,572		[3] 8,741		65,255	14,004	8,989	88,248	861	12,638		6,456	

[1] Preliminary data. Data for 1960 includes Hawaii; for details of Hawaii for 1959 see table 5.

[2] For comparison with 1960—excludes 867,000 barrels of commercial jet fuel stocks, which were transferred to kerosine.

[3] Not available.

ASPHALT AND ROAD OIL

Total demand for petroleum asphalt increased 2.2 percent in 1960. Whereas refinery output (17,940,000 short tons) was 187,000 tons greater than a year ago, imports declined 137,000 tons. Demand exceeded new supply and resulted in a withdrawal from stocks of 147,000 short tons.

Sales of asphalt and asphaltic products in 1960 totaled 20,076,000 short tons, a 1.5 percent increase for the year. Asphalt paving products, which represent 73.2 percent of total sales, were 0.7 percent higher than a year ago. Roofing product sales increased 6.9 percent whereas sales for all other asphalt products declined 1.7 percent.

The year 1960 was the first full year in which imports of asphalt were under the control of the Oil Import Administration.

The demand for road oil, based on production and stock change at the refinery, totaled 5.9 million barrels in 1960 compared with 6.3 million in 1959. Sales of road oil, which includes some products, which were reclassified after leaving the refinery, totaled 6.4 million barrels, a gain of 1.6 percent.

TABLE 72.—Statistical summary of petroleum asphalt and road oil

(Thousand short tons) [1]

	1956	1957	1958	1959	1960
Petroleum asphalt:					
Production	16,479	15,579	16,251	17,753	17,940
Imports [2] (including natural)	656	1,162	1,360	1,250	1,113
Exports [3]	275	325	248	188	167
Stocks (end of period)	1,664	1,902	1,774	1,991	1,844
Apparent domestic consumption [4]	16,609	16,178	17,491	18,598	19,033
Petroleum asphalt sales:					
Paving	12,208	11,934	13,384	14,581	14,689
Roofing	3,411	2,819	3,101	3,299	3,525
All other	1,638	1,620	1,694	1,895	1,862
Total	17,257	16,373	18,179	19,775	20,076
Road oil:					
Production	1,459	1,311	1,077	1,181	1,085
Stocks (end of period)	91	107	76	119	135
Apparent domestic consumption [5]	1,470	1,295	1,108	1,138	1,069
Road oil sales	1,493	1,306	1,165	1,143	1,161

[1] Converted from barrels to short tons (5.5 barrels=1 short ton).
[2] Imports into the United States only.
[3] Includes shipments to noncontiguous territories.
[4] Production, plus imports, less exports, plus or minus stock change.
[5] Production, plus or minus change in stocks.

TABLE 73.—Salient statistics of petroleum asphalt in the United States, by months and districts

(Thousand short tons) [1]

Month and district	Production		Imports [2] (including natural)		Exports [3]		Stocks (end of period)		Domestic demand	
	1959	1960 [4]	1959	1960 [4]	1959	1960 [4]	1959	1960 [4]	1959	1960 [4]
Month:										
January	820	826	125	81	13	6	2,045	2,334	661	557
February	796	793	58	36	11	11	2,313	2,567	575	585
March	1,231	867	117	40	23	13	2,594	2,776	1,044	685
April	1,395	1,403	69	111	11	17	2,770	3,060	1,277	1,213
May	1,687	1,718	54	53	17	10	2,791	3,098	1,703	1,723
June	1,924	2,008	166	214	13	16	2,587	2,866	2,281	2,438
July	2,094	2,141	124	116	20	12	2,337	2,593	2,447	2,518
August	2,074	2,203	172	102	14	13	2,075	2,052	2,495	2,833
September	1,937	2,027	133	98	15	25	1,816	1,656	2,313	2,496
October	1,713	1,771	101	88	21	17	1,742	1,480	1,867	2,018
November	1,204	1,239	56	99	16	15	1,859	1,562	1,127	1,241
December	878	944	75	75	14	12	1,990	1,844	808	725
Total	17,753	17,940	1,250	1,113	188	167	1,990	1,844	18,598	19,032
District:										
East Coast	3,696	3,918					357	385		
Appalachian No. 1	224	227					10	9		
Appalachian No. 2	468	442					38	39		
Indiana, Illinois, Kentucky, etc.	3,184	3,423					319	306		
Minnesota, Wisconsin, North Dakota	220	244					41	25		
Oklahoma, Kansas, etc.	1,825	1,890	(5)	(5)	(5)	(5)	346	268	(5)	(5)
Texas Inland	972	865					100	85		
Texas Gulf Coast	1,287	1,415					68	92		
Louisiana Gulf Coast	715	808					84	121		
Arkansas, Louisiana Inland, etc.	863	773					138	105		
New Mexico	93	89					15	14		
Rocky Mountain	1,242	1,275					225	166		
West Coast	2,964	2,571					249	229		
Total	17,753	17,940	1,250	1,113	188	167	1,990	1,844	18,598	19,032

[1] Converted from barrels to short tons (5.5 barrels=1 short ton).
[2] Imports into the United States only.
[3] Excludes shipments to noncontiguous territories.
[4] Preliminary figures.
[5] Not available.

TABLE 74.—Salient statistics of road oil in the United States by months and districts

(Short tons) [1]

Month and district	Production		Stocks (end of period)		Domestic demand	
	1959	1960 [2]	1959	1960 [2]	1959	1960 [2]
Month:						
January	11,273	13,455	75,274	120,182	11,818	12,000
February	30,909	38,545	98,183	142,727	8,000	16,000
March	56,364	27,636	136,002	159,636	18,545	10,727
April	95,091	93,818	192,184	212,000	38,909	41,454
May	136,727	125,455	239,456	259,091	89,455	78,364
June	179,455	153,091	218,366	260,909	200,545	151,273
July	240,727	216,364	186,184	243,273	272,909	234,000
August	189,818	171,454	149,275	173,818	226,727	240,909
September	113,273	93,636	120,912	127,454	141,636	140,000
October	60,727	58,909	111,455	116,545	70,184	69,818
November	29,818	44,545	108,000	132,727	33,273	28,363
December	36,364	48,546	118,728	135,091	25,636	46,183
Total	1,180,546	1,085,454	118,728	135,091	1,137,637	1,069,091
District:						
East Coast	4,182	4,364	----------	----------	[3]	[3]
Appalachian No. 1	----------	----------	----------	----------		
Appalachian No. 2	----------	----------	----------	----------		
Indiana, Illinois, Kentucky, etc.	300,364	324,727	12,364	16,000		
Minnesota, Wisconsin, North Dakota	27,455	42,363	----------	----------		
Oklahoma, Kansas, etc.	252,000	192,364	27,273	11,455		
Texas Inland	----------	----------	----------	----------		
Texas Gulf Coast	2,909	2,182	364	182		
Louisiana Gulf Coast	1,818	5,273	545	182		
Arkansas, Louisiana Inland, etc.	3,273	2,364	364	181		
New Mexico	----------	----------	----------	----------		
Rocky Mountain	350,000	266,727	49,091	30,909		
West Coast	238,545	245,090	28,727	76,182		
Total	1,180,546	1,085,454	118,728	135,091	1,137,637	1,069,091

[1] Converted from barrels to short tons (5.5 barrels=1 short ton).
[2] Preliminary figures.
[3] Not available.

TABLE 75.—Sales of petroleum-asphalt paving products in the United States, by PAD districts and States

(Short tons)

District and State	Asphalt cements		Cutback asphalts		Emulsified asphalts		Total	
	1959	1960	1959	1960	1959	1960	1959	1960
District 1:								
Connecticut	119,252	120,219	56,404	57,249	3,918	13	179,574	177,481
Delaware	21,795	19,724	12,848	16,269	82	5,879	34,725	41,872
Florida	340,051	253,066	150,298	113,678	23,446	24,226	513,795	390,970
Georgia	265,392	208,416	81,647	59,144	9,401	33,802	356,440	301,362
Maine	51,775	49,076	62,447	72,994	9,734	14,774	123,956	136,844
Maryland and District of Columbia	173,186	166,920	74,286	68,742	18,628	37,138	266,100	272,800
Massachusetts	275,254	257,346	55,091	51,657	711	900	331,056	309,903
New Hampshire	31,803	40,994	48,674	48,582	51	67	80,528	89,643
New Jersey	265,158	244,189	112,366	95,077	20,324	19,786	397,848	359,052
New York	496,790	569,788	235,747	254,288	129,590	130,426	862,127	954,502
North Carolina	162,063	193,205	75,010	88,102	58,989	101,826	296,062	383,133
Pennsylvania	359,721	384,259	161,358	158,735	48,336	55,205	569,415	598,199
Rhode Island	41,450	45,109	43,484	49,218	58	----------	84,992	94,327
South Carolina	136,774	139,777	37,694	36,592	16,410	80,207	190,878	256,576
Vermont	11,669	17,000	23,279	22,846	1,062	326	36,010	40,172
Virginia	170,233	186,598	109,164	97,095	8,891	27,771	288,288	311,464
West Virginia	57,914	70,227	23,755	32,523	2,873	13,357	84,542	116,107
Total	2,980,280	2,965,913	1,363,552	1,322,791	352,504	545,703	4,696,336	4,834,407
District 2:								
Illinois	346,886	229,991	160,650	174,196	9,808	8,336	517,344	412,523
Indiana	150,683	178,186	123,518	144,005	111,841	117,918	386,042	440,109
Iowa	209,995	279,087	102,282	117,012	44,663	44,935	356,940	441,034
Kansas	117,883	141,531	278,276	235,291	143	1,165	396,302	377,987
Kentucky	176,094	133,134	112,034	85,765	18,162	55,141	306,290	274,040
Michigan	268,084	298,742	105,015	88,346	53,378	60,136	426,477	447,224
Minnesota	148,219	176,431	208,485	211,203	16,596	18,991	373,300	406,625
Missouri	112,285	157,828	192,032	216,318	8,221	11,779	312,538	385,925
Nebraska	50,002	63,778	91,021	73,660	60	125	141,083	137,563
North Dakota	68,546	74,885	76,346	55,864	66,299	68,634	211,191	199,383
Ohio	443,672	494,760	333,994	338,208	116,970	163,089	894,636	996,057
Oklahoma	153,405	152,378	130,735	182,188	904	7,576	285,044	342,142
South Dakota	83,520	54,088	45,819	49,592	11,917	4,814	141,256	108,494
Tennessee	215,132	168,282	108,692	82,474	17,528	18,299	341,352	269,055
Wisconsin	208,079	202,410	106,685	115,050	4,125	6,146	318,889	323,606
Total	2,752,485	2,805,511	2,175,584	2,169,172	480,615	587,084	5,408,684	5,561,767
District 3:								
Alabama	154,758	160,517	78,335	81,169	26,492	40,097	259,585	281,783
Arkansas	63,717	61,336	42,420	48,083	19,383	16,691	125,520	126,110
Louisiana	228,839	169,732	23,046	22,236	25,280	24,575	277,165	216,543
Mississippi	82,905	83,139	24,606	24,064	19,337	14,953	126,848	122,156
New Mexico	113,090	89,880	71,955	67,439	10,160	2,117	195,205	159,436
Texas	742,266	642,780	214,517	185,757	35,849	31,606	992,632	860,143
Total	1,385,575	1,207,384	454,879	428,748	136,501	130,039	1,976,955	1,766,171
District 4:								
Colorado	162,645	162,835	63,406	90,942	352	3,510	226,403	257,287
Idaho	33,716	32,167	38,765	37,965	2,101	3,722	74,582	73,854
Montana	63,674	79,339	53,177	59,242	6,895	10,362	123,746	148,943
Utah	78,502	75,294	53,323	59,466	5	----------	131,830	134,760
Wyoming	39,470	71,329	32,726	40,696	2,902	269	75,098	112,294
Total	378,007	420,964	241,397	288,311	12,255	17,863	631,659	727,138
District 5:								
Alaska	4,255	5,618	1,268	1,676	----------	----------	5,523	7,294
Arizona	51,401	75,671	35,966	42,076	14,102	43,786	101,469	161,533
California	1,047,627	888,644	134,745	104,470	117,993	168,992	1,300,365	1,162,106
Hawaii	(1)	----------	(1)	----------	(1)	----------	(1)	----------
Nevada	27,243	17,750	10,051	8,438	3,788	9,578	41,082	35,766
Oregon	162,792	181,922	36,899	36,292	9,564	13,764	209,255	231,978
Washington	124,785	110,208	79,896	84,011	4,726	6,890	209,407	201,109
Total	1,418,103	1,279,813	298,825	276,963	150,173	243,010	1,867,101	1,799,786
Total United States	8,914,450	8,679,585	4,534,237	4,485,985	1,132,048	1,523,699	14,580,735	14,689,269

[1] Not included in the United States total before 1960.

TABLE 76.—Sales of petroleum-asphalt roofing products in the United States, by PAD districts and States

(Short tons)

District and State	Asphalt cements and fluxes		Emulsified asphalts		Total	
	1959	1960	1959	1960	1959	1960
District 1:						
Connecticut	20,491	18,463	24	41	20,515	18,504
Delaware	1,530	1,335	184	162	1,714	1,497
Florida	98,006	119,274	15	----	98,021	119,274
Georgia	110,215	156,829	23	80	110,238	156,909
Maine	----	----	----	----	----	----
Maryland and District of Columbia	43,080	51,251	90	184	43,170	51,435
Massachusetts	57,310	67,596	88	173	57,398	67,769
New Hampshire	3	3	25	14	28	17
New Jersey	301,090	321,092	139	332	301,229	321,424
New York	44,645	47,782	364	489	45,009	48,271
North Carolina	44,399	45,154	----	678	44,399	45,832
Pennsylvania	138,232	172,095	471	609	138,703	172,704
Rhode Island	39,860	37,260	16	20	39,876	37,280
South Carolina	48,018	55,362	570	----	48,588	55,362
Vermont	46	101	6	8	52	109
Virginia	4,532	7,656	44	55	4,576	7,711
West Virginia	41,454	37,284	----	136	41,454	37,420
Total	992,911	1,138,537	2,059	2,981	994,970	1,141,518
District 2:						
Illinois	500,207	492,032	81	189	500,288	492,221
Indiana	89,389	68,554	116	80	89,505	68,634
Iowa	11,008	9,180	----	----	11,008	9,180
Kansas	22,570	25,558	----	----	22,570	25,558
Kentucky	2,117	863	97	13	2,214	876
Michigan	54,150	54,030	327	372	54,477	54,402
Minnesota	115,621	115,004	86	95	115,707	115,099
Missouri	163,120	173,428	----	----	163,120	173,428
Nebraska	6,351	5,654	----	----	6,351	5,654
North Dakota	1,457	2,159	----	----	1,457	2,159
Ohio	61,503	195,921	3,163	3,039	64,666	198,960
Oklahoma	327	21,066	----	----	327	21,066
South Dakota	1,510	2,651	----	----	1,510	2,651
Tennessee	48,674	63,433	1	----	48,675	63,433
Wisconsin	14,619	12,632	251	409	14,870	13,041
Total	1,092,623	1,242,165	4,122	4,197	1,096,745	1,246,362
District 3:						
Alabama	122,162	117,064	44	1	122,206	117,065
Arkansas	57,837	57,808	----	----	57,837	57,808
Louisiana	146,721	115,679	----	----	146,721	115,679
Mississippi	10,263	9,028	----	----	10,263	9,028
New Mexico	11,981	16,096	----	----	11,981	16,096
Texas	243,885	227,630	----	----	243,885	227,630
Total	592,849	543,305	44	1	592,893	543,306
District 4:						
Colorado	23,906	31,574	----	----	23,906	31,574
Idaho	4,792	3,753	----	----	4,792	3,753
Montana	3,367	6,656	----	----	3,367	6,656
Utah	6,785	7,247	2	12	6,787	7,259
Wyoming	3,364	3,397	----	----	3,364	3,397
Total	42,214	52,627	2	12	42,216	52,639
District 5:						
Alaska	1,258	1,716	----	----	1,258	1,716
Arizona	711	226	----	----	711	226
California	437,877	404,304	104	1,493	437,981	405,797
Hawaii	(1)	5,565	(1)	----	(1)	5,565
Nevada	150	382	----	----	150	382
Oregon	99,855	107,646	5	----	99,860	107,646
Washington	32,148	19,884	6	----	32,154	19,884
Total	571,999	539,723	115	1,493	572,114	541,216
Total, United States	3,292,596	3,516,357	6,342	8,684	3,298,938	3,525,041

[1] Not included in the United States total before 1960.

TABLE 77.—Sales of all other petroleum-asphalt products in the United States, by PAD districts and States

(Short tons)

District and State	Asphalt cements and fluxes		Emulsified asphalts		Total	
	1959	1960	1959	1960	1959	1960
District 1:						
Connecticut	12,088	11,917	406	458	12,494	12,375
Delaware	2,117	2,316	15	3	2,132	2,319
Florida	106,219	121,314	1,873	1,260	108,092	122,574
Georgia	56,049	16,335	1,970	735	58,019	17,070
Maine	4,797	2,595	374	132	5,171	2,727
Maryland and District of Columbia	19,549	24,422	1,238	697	20,787	25,119
Massachusetts	54,111	55,322	1,396	1,383	55,507	56,705
New Hampshire	460	264	31	49	491	313
New Jersey	236,745	207,168	3,453	3,444	240,198	210,612
New York	40,506	33,173	2,307	2,351	42,813	35,524
North Carolina	70,708	72,264	319	128	71,027	72,392
Pennsylvania	157,332	124,722	2,963	2,656	160,295	127,378
Rhode Island	7,642	9,012	171	140	7,813	9,152
South Carolina	1,243	1,371	93	70	1,336	1,441
Vermont	2,572	2,606	16	9	2,588	2,615
Virginia	18,944	15,990	347	617	19,291	16,607
West Virginia	18,505	22,254	145	----------	18,650	22,254
Total	809,587	723,045	17,117	14,132	826,704	737,177
District 2:						
Illinois	225,991	232,560	8,900	9,870	234,891	242,430
Indiana	105,014	96,431	332	797	105,346	97,228
Iowa	6,347	4,614	37	1,292	6,384	5,906
Kansas	12,994	14,501	6	125	13,000	14,626
Kentucky	958	2,121	992	1,359	1,950	3,480
Michigan	27,870	32,185	5,258	4,811	33,128	36,996
Minnesota	31,255	31,968	90	558	31,345	32,526
Missouri	46,905	49,034	1,025	1,554	47,930	50,588
Nebraska	3,242	2,676	5	22	3,247	2,698
North Dakota	4,813	3,628	----------	122	4,813	3,750
Ohio	100,639	99,149	4,237	3,158	104,876	102,307
Oklahoma	14,010	22,343	34	70	14,044	22,413
South Dakota	55	101	----------	----------	55	101
Tennessee	17,795	9,356	152	138	17,947	9,494
Wisconsin	45,742	38,848	126	1,274	45,868	40,122
Total	643,630	639,515	21,194	25,150	664,824	664,665
District 3:						
Alabama	15,747	13,606	585	1,086	16,332	14,692
Arkansas	7,463	8,032	202	31	7,665	8,063
Louisiana	70,869	85,230	3,119	3,511	73,988	88,741
Mississippi	17,471	14,193	758	616	18,229	14,809
New Mexico	2,501	2,224	39	30	2,540	2,254
Texas	92,602	74,577	2,515	2,088	95,117	76,665
Total	206,653	197,862	7,218	7,362	213,871	205,224
District 4:						
Colorado	7,948	6,185	353	170	8,301	6,355
Idaho	425	375	44	41	469	416
Montana	2,611	1,642	27	9	2,638	1,651
Utah	1,629	614	54	35	1,683	649
Wyoming	4,057	2,111	8	12	4,065	2,123
Total	16,670	10,927	486	267	17,156	11,194
District 5:						
Alaska	1,555	----------	----------	2	1,555	2
Arizona	1,765	1,901	195	215	1,960	2,116
California	140,613	191,505	6,511	13,947	147,124	205,452
Hawaii	(1)	----------	(1)	----------	(1)	----------
Nevada	306	424	23	30	329	454
Oregon	6,991	5,264	1,910	1,328	8,901	6,592
Washington	11,239	27,416	1,252	1,111	12,491	28,527
Total	162,469	226,510	9,891	16,633	172,360	243,143
Total United States	1,839,009	1,797,859	55,906	63,544	1,894,915	1,861,403

[1] Not included in the U.S. total before 1960.

TABLE 78.—Sales of petroleum asphalts and road oil in the United States, 1959–60, by PAD districts and States

(Short tons)

District and State	Asphalt cements and fluxes	Emulsified asphalts	Cutback asphalts	Total 1960	Total 1959	Percent change	Road oil		Percent change
							1960	1959	
District 1:									
Connecticut	150,599	512	57,249	208,360	212,583	−2.0	31		
Delaware	23,375	6,044	16,269	45,688	38,571	18.5	62	83	−25.3
Florida	493,654	25,486	113,678	632,818	719,908	−12.1			
Georgia	381,580	34,617	59,144	475,341	524,697	−9.4			
Maine	51,671	14,906	72,994	139,571	129,127	8.1	54	1,484	−96.4
Maryland and District of Columbia	242,593	38,019	68,742	349,354	330,057	5.9	83	534	−84.5
Massachusetts	380,264	2,456	51,657	434,377	443,961	−2.2	517	755	−31.5
New Hampshire	41,261	130	48,582	89,973	81,047	11.0	7		
New Jersey	772,449	23,562	95,077	891,088	939,275	−5.1	933	2,838	−67.1
New York	650,743	133,266	254,288	1,038,297	949,949	9.3	646	336	92.3
North Carolina	310,623	102,632	88,102	501,357	411,488	21.8			
Pennsylvania	681,076	58,470	158,735	898,281	868,413	3.4	8,356	9,970	−16.2
Rhode Island	91,381	160	49,218	140,759	132,681	6.1	40	9	344.4
South Carolina	196,510	80,277	36,592	313,379	240,802	30.1		14	
Vermont	19,707	343	22,846	42,896	38,650	11.0			
Virginia	210,244	28,443	97,095	335,782	312,155	7.6			
West Virginia	129,765	13,493	32,523	175,781	144,646	21.5	86	467	−81.6
Total 1960	4,827,495	562,816	1,322,791	6,713,102		3.0	10,815		−34.4
Total 1959	4,782,778	371,680	1,363,552		6,518,010			16,490	
District 2:									
Illinois	954,583	18,395	174,196	1,147,174	1,252,523	−8.4	251,174	232,541	8.0
Indiana	343,171	118,795	144,005	605,971	580,893	4.3	22,691	30,910	−26.6
Iowa	292,881	46,227	117,012	456,120	374,332	21.9	39,528	36,564	8.1
Kansas	181,590	1,290	235,291	418,171	431,872	−3.2	2,970	3,459	−14.1
Kentucky	136,118	56,513	85,765	278,396	310,454	−10.3	5,656	10,637	−46.8
Michigan	384,957	65,319	88,346	538,622	514,082	4.8	24,804	24,873	−0.3
Minnesota	323,403	19,644	211,203	554,250	520,352	6.5	22,164	17,884	23.9
Missouri	380,290	13,333	216,318	609,941	523,588	16.5	108,256	83,944	29.0
Nebraska	72,108	147	73,660	145,915	150,681	−3.2	3,671	2,725	34.7
North Dakota	80,672	68,756	55,864	205,292	217,461	−5.6	10,231	8,060	26.9
Ohio	789,830	169,286	338,208	1,297,324	1,064,178	21.9	17,913	20,137	−11.0
Oklahoma	195,787	7,646	182,188	385,621	299,415	28.8	4,060	2,482	63.6
South Dakota	56,840	4,814	49,592	111,246	142,821	−22.1	28,772	25,993	10.7
Tennessee	241,071	18,437	82,474	341,982	407,974	−16.2	15		
Wisconsin	253,890	7,829	115,050	376,769	379,627	−0.8	176,239	130,256	35.3
Total 1960	4,687,191	616,431	2,169,172	7,472,794		4.2	718,144		13.9
Total 1959	4,488,738	505,931	2,175,584		7,170,253			630,465	

District 3:									
Alabama	291,187	41,184	81,169	413,540	398,123	3.9	125	37	237.8
Arkansas	127,176	16,722	48,083	191,981	191,022	0.5	130		
Louisiana	370,641	28,086	22,236	420,963	497,874	−15.5	689		
Mississippi	106,360	15,569	24,064	145,993	155,340	−6.0			
New Mexico	108,200	2,147	67,439	177,786	209,726	−15.2	7,164	4,925	45.5
Texas	944,987	33,694	185,757	1,164,438	1,331,634	−12.6	40,988	41,008	−0.1
Total 1960	1,948,551	137,402	428,748	2,514,701		−9.7	49,096		6.8
Total 1959	2,185,077	143,763	454,879		2,783,719			45,970	
District 4:									
Colorado	200,594	3,680	90,942	295,216	258,610	14.2	15,237	21,486	−29.1
Idaho	36,295	3,763	37,965	78,023	79,843	−2.3	16,814	20,264	−17.0
Montana	87,637	10,371	59,242	157,250	129,751	21.2	8,870	9,850	−10.0
Utah	83,155	47	59,466	142,668	140,300	1.7	13,626	16,769	−18.7
Wyoming	76,837	281	40,696	117,814	82,527	42.8	23,881	22,451	6.4
Total 1960	484,518	18,142	288,311	790,971		14.5	78,428		−13.7
Total 1959	436,891	12,743	241,397		691,031			90,820	
District 5:									
Alaska	7,334	2	1,676	9,012	8,336	8.1	2		
Arizona	77,798	44,001	42,076	163,875	104,140	57.4	3,775	4,125	−8.5
California	1,484,453	184,432	104,470	1,773,355	1,885,470	−6.0	283,788	332,979	−14.8
Hawaii	5,565			5,565	(1)			(1)	
Nevada	18,556	9,608	8,438	36,602	41,561	−11.9	13,621	17,788	−23.4
Oregon	294,832	15,092	36,292	346,216	318,016	8.9	2,438	1,733	40.7
Washington	157,508	8,001	84,011	249,520	254,052	−1.8	1,193	2,472	−51.7
Total 1960	2,046,046	261,136	276,963	2,584,145		−1.1	304,817		−15.1
Total 1959	2,152,571	160,179	298,825		2,611,575			359,097	
U.S., total 1960	13,993,801	1,595,927	4,485,985	20,075,713		1.5	1,161,300		1.6
U.S., total 1959	14,046,055	1,194,296	4,534,237		19,774,588			1,142,842	

[1] Not included in the U.S. total before 1960.

OTHER PRODUCTS

Wax.—As a result of a 29.3 percent increase in exports, the total demand for wax in 1960 was 3.3 percent higher than in 1959. Domestic demand totaled 4.4 million barrels, 2.6 percent less than 1959. Wax is used mainly for waterproofing paper products and for candles.

Posted prices on wax in bulk lots at Atlantic and gulf coast refineries were unchanged in 1960. The first price change at Western Pennsylvania refineries since November 1956 took place in November 1960, and the average monthly quoted price dropped from 6.25 cents per pound to 6.13 cents.

TABLE 79.—Salient statistics of wax in the United States, by types, months, and districts

(Thousand barrels)[1]

Month and district	1959										
	Production				Imports (all types)	Exports (all types)	Stocks end of period				Domestic demand (all types)
	Microcrystalline	Fully refined	Other	Total			Microcrystalline	Fully refined	Other	Total	
By months:											
January	59	252	188	499	1	72	124	255	335	714	426
February	58	203	147	408	-------	82	118	272	293	683	357
March	76	234	156	466	2	96	116	282	286	684	371
April	57	251	198	506	1	85	110	285	320	715	391
May	77	199	197	473	3	92	112	293	336	741	358
June	61	208	197	466	-------	95	100	291	330	721	391
July	73	203	154	430	1	82	98	284	319	701	369
August	60	222	164	446	5	75	100	284	327	711	366
September	72	241	156	469	2	93	105	284	320	709	380
October	79	228	147	454	3	76	131	278	288	697	393
November	94	224	147	465	2	86	138	297	285	720	358
December	75	257	216	548	1	100	131	309	334	774	395
Total	841	2,722	2,067	5,630	21	1,034	131	309	334	774	4,555
By districts:											
East Coast	230	1,217	463	1,910	2	(3)	26	74	117	217	(3)
Appalachian No. 1	14	43	278	335			11	42	15	68	
Appalachian No. 2	-------	35	29	64			-------	9	-------	9	
Indiana, Illinois, Kentucky, etc.	29	209	62	300	-------		1	8	10	19	
Oklahoma, Kansas, etc.	372	29	227	628			39	7	33	79	
Texas Inland	15	-------	26	41			25	-------	-------	25	
Texas Gulf Coast	136	567	417	1,120	19		19	31	107	157	
Louisiana Gulf Coast	40	29	557	626			7	11	35	53	
Rocky Mountain	5	55	8	68	-------		3	9	17	29	
West Coast	-------	538	-------	538	-------		-------	118	-------	118	
Total	841	2,722	2,067	5,630	21	-------	131	309	334	774	-------

See footnotes at end of table.

TABLE 79.—Salient statistics of wax in the United States, by types, months, and districts—Continued

(Thousand barrels) [1]

Month and district	1960 [2]										
	Production				Imports (all types)	Exports (all types)	Stocks end of period				Domestic demand (all types)
	Microcrystalline	Fully refined	Other	Total			Microcrystalline	Fully refined	Other	Total	
By months:											
January	86	226	144	456	1	99	145	315	329	789	343
February	55	225	199	479	1	110	128	314	357	799	360
March	93	279	139	511	2	105	134	338	310	782	425
April	61	251	155	467	-------	93	118	347	317	782	374
May	76	266	170	512	1	109	117	359	338	814	372
June	59	233	170	462	1	116	114	322	339	775	386
July	75	244	137	456	-------	91	130	345	325	800	340
August	73	233	194	500	-------	116	151	313	356	820	364
September	50	233	170	453	-------	118	156	281	331	768	387
October	59	304	252	615	-------	130	165	304	409	878	375
November	54	281	179	514	-------	122	197	302	393	892	378
December	46	254	171	471	-------	124	165	336	404	905	334
Total	787	3,029	2,080	5,896	6	1,333	165	336	404	905	4,438
By districts:											
East Coast	200	1,444	381	2,025	-------	[3]	20	79	117	216	[3]
Appalachian No. 1	13	66	188	267			16	48	23	87	
Appalachian No. 2	-------	34	23	57			-------	8	-------	8	
Indiana, Illinois, Kentucky, etc.	27	226	103	356	-------		1	16	25	42	
Oklahoma, Kansas, etc.	364	17	297	678			80	9	52	141	
Texas Inland	57	-------	-------	57			20	-------	-------	20	
Texas Gulf Coast	88	635	530	1,253	6		20	40	129	189	
Louisiana Gulf Coast	33	30	544	607			3	24	41	68	
Rocky Mountain	5	63	14	82	-------		5	11	17	33	
West Coast	-------	514	-------	514	-------		-------	101	-------	101	
Total	787	3,029	2,080	5,896	6	-------	165	336	404	905	-------

[1] Conversion factor: 280 pounds to the barrel.
[2] Preliminary data. Data for 1960 includes Hawaii; for details of Hawaii for 1959 see table 5.
[3] Not available.

TABLE 80.—Average monthly refinery prices of 124°–126° white crude scale wax at Pennsylvania refineries

(Cents per pound)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average for year
1956	5.91	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.03	6.25	6.02
1957	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
1958	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
1959	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
1960	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.23	6.13	6.24

Source: Platt's Oil price handbook.

Coke.—A substantial share of the reported increase in petroleum coke production for 1960 is nonmarketable catalyst coke used as a refinery fuel. The reported production of this product was understated in other years. More complete reporting was obtained beginning in June 1960.

The total demand for marketable petroleum coke in 1960 was 27,375 thousand barrels, an increase of 21.6 percent. Exports increased 46.5 percent and the domestic demand was 15.1 percent higher. Coke with a low sulphur content is used in making electrodes required in the electrolic production of aluminum.

TABLE 81.—Salient statistics of petroleum coke in the United States, by months and districts [1]

(Thousand barrels unless otherwise stated)

Month and district	Production		Yields (percent)		Domestic demand		Exports		Stocks, end of period	
	1959	1960[2]	1959	1960[2]	1959	1960[2]	1959	1960[2]	1959	1960[2]
By months:										
January	3,413	3,839	1.3	1.5	2,827	3,173	431	558	4,973	5,813
February	3,182	3,531	1.3	1.5	2,751	3,119	197	396	5,207	5,829
March	3,679	3,993	1.4	1.6	3,111	3,440	304	428	5,471	5,954
April	3,083	4,047	1.3	1.7	2,751	3,527	334	493	5,469	5,981
May	3,466	4,146	1.4	1.7	2,895	3,711	383	528	5,657	5,888
June	3,620	5,210	1.5	2.1	2,952	4,571	433	693	5,892	5,834
July	3,314	5,662	1.4	2.2	2,755	4,633	436	868	6,015	5,995
August	3,349	6,252	1.3	2.4	3,030	5,806	407	431	5,927	6,010
September	3,425	5,829	1.4	2.4	3,089	5,144	447	656	5,816	6,039
October	3,415	5,765	1.4	2.3	3,253	5,083	496	753	5,482	5,968
November	3,360	5,726	1.4	2.4	2,919	5,171	354	654	5,569	5,869
December	3,811	6,010	1.5	2.4	3,217	7,094	458	398	5,705	4,387
Total	[3] 41,117	[4] 60,010	1.4	2.0	35,550	54,472	4,680	6,856	5,705	4,387
By districts:										
East Coast	7,611	10,076	1.7	2.3					1,100	1,113
Appalachian No. 1		101		.3						
Appalachian No. 2	351	362	.9	1.0						
Indiana, Illinois, Kentucky, etc.	11,698	13,747	2.2	2.6					1,060	652
Minnesota, Wisconsin, etc.	1,373	1,638	3.6	3.7					315	352
Oklahoma, Kansas, etc.	5,438	7,469	2.1	2.8					194	157
Texas Inland	424	1,025	.4	.9	[5]	[5]	[5]	[5]	66	76
Texas Gulf Coast	3,840	9,068	.6	1.4						18
Louisiana Gulf Coast	2,763	3,986	1.1	1.6					19	42
Arkansas, Louisiana Inland, etc.	1,073	1,677	3.3	4.2					673	762
New Mexico		28		.3						
Rocky Mountain	1,647	2,521	1.6	2.4					566	743
West Coast	4,899	8,312	1.2	1.9					1,712	472
Total	[3] 41,117	[4] 60,010	1.4	2.0					5,705	4,387

[1] Conversion factor: 5.0 barrels to the short ton.
[2] Preliminary figures.
[3] Includes 17,722,000 barrels of nonmarketable catalyst coke.
[4] Includes 33,953,000 barrels of nonmarketable catalyst coke.
[5] Figures not available.

Still Gas.—Still gas production in 1960 totaled 129.5 million barrels, an increase of 2.5 million barrels over 1959. The B.t.u. heating value of the gas declined from 1030 B.t.u. per cubic foot in 1959 to 997 B.t.u. in 1960. Refiners used as refinery fuel 96.6 percent of the still gas produced in 1960.

TABLE 82.—Production of still gas in the United States, by districts

District	1958		1959		1960[1]	
	Million cubic feet	Equivalent in thousand barrels	Million cubic feet	Equivalent in thousand barrels	Million cubic feet	Equivalent in thousand barrels
East Coast	89,405	16,089	95,747	16,648	95,297	16,159
Appalachian No. 1	8,686	1,807	10,173	1,813	10,001	1,763
Appalachian No. 2	10,289	2,070	12,217	1,984	11,494	2,050
Indiana, Illinois, Kentucky, etc	149,069	26,642	152,011	25,821	158,043	26,380
Minnesota, Wisconsin, North Dakota, and South Dakota	6,783	1,124	7,480	1,224	9,224	1,531
Oklahoma, Kansas, etc	63,193	11,141	63,002	10,568	66,949	10,959
Texas Inland	28,891	5,790	29,769	5,203	32,434	5,643
Texas Gulf Coast	156,925	24,466	156,640	24,767	176,309	26,113
Louisiana Gulf Coast	54,658	8,864	48,432	7,468	52,753	7,528
Arkansas, Louisiana Inland, etc	4,947	1,375	6,720	1,215	11,856	2,259
New Mexico	916	189	1,055	187	1,266	223
Rocky Mountain	21,164	4,507	25,186	4,543	22,308	4,139
West Coast	124,915	21,887	141,242	25,517	131,479	24,733
Total	719,841	125,951	749,674	126,958	779,413	129,480

[1] Preliminary figures.

Miscellaneous Oils.—The total production of miscellaneous finished oils in 1960 was 25.9 million barrels, which includes 24.4 million barrels produced at petroleum refineries and 1.5 million produced at natural-gas liquid plants. The demand for these oils increased 8.7 percent during 1960. Domestic demand was 25.2 million barrels and exports were 0.3 million barrels.

A breakdown of the various type of miscellaneous oils produced is shown in table 83. Petrochemicals represent most of the miscellaneous oils produced at refineries, and for 1960 they have been separated from the all-other category.

TABLE 83.—Production of miscellaneous finished oils in the United States in 1960, by districts and classes

(Thousand barrels)

District	Absorption	Petrolatum	Specialty oils			Petrochemicals			All other products	Total
			Medicinal	Spray oils	Other	Plasticizers	Polymers	Other		
East Coast		1	65	30	541		125	2,555	486	3,803
Appalachian No. 1		104	10		33			397	56	600
Appalachian No. 2				28						28
Indiana, Illinois, Kentucky, etc		71		313	263	17	62	53	388	1,167
Minnesota, Wisconsin, North Dakota, and South Dakota								62		62
Oklahoma, Kansas, etc	85	474			320	30			145	1,054
Texas Inland	513				523		100		15	1,151
Texas Gulf Coast	60	403		24	10		1,303	4,646	2,336	8,782
Louisiana Gulf Coast	435	2		29	11		151	433	2,504	3,565
Arkansas - Louisiana Inland	347				5		229		94	675
Rocky Mountain and New Mexico	170				49				267	486
West Coast	45	19	32	73	384	87		2,112	1,727	4,479
Total	1,655	1,074	107	497	2,139	134	1,970	10,258	8,018	25,852

Unfinished Oils.—Unfinished oils include all oils, which will be cracked or further distilled with the exception of the unfinished gasoline part of naphtha distillate. Unfinished oils are ordinarily rerun and become finished products.

INTERCOASTAL SHIPMENTS

Crude oil and products moved from the gulf coast to the east coast comprise most of intercoastal shipments. Some petroleum shipments are moved from the west coast to gulf and east coast ports and from the gulf coast to the west coast, but the volume is small.

Shipments from the gulf to the east coast in 1960 totaled 694.4 million barrels, a 4.0 percent gain over 1959. Gasoline represented 35.2 percent of the volume of the gulf-east coast shipments; distillate fuel oil, 25.0 percent; and crude oil, 23.1 percent.

Coastwise shipments from the west coast through the Panama Canal totaled 12.7 million barrels in 1960 and shipments from the gulf to the west coast totaled 3.4 million barrels.

TABLE 84.—Petroleum oils, crude and refined, shipped commercially from gulf coast to east coast ports of the United States, 1959–60, by classes [1]

(Thousand barrels)

Year and class	January	February	March	April	May	June	July	August	September	October	November	December	Total
1959:													
Crude petroleum	18,081	17,949	17,769	15,702	10,462	8,826	14,740	14,945	10,737	10,677	12,694	14,205	166,787
Gasoline	17,042	17,027	17,777	21,094	19,858	21,636	21,053	21,600	17,542	17,692	17,856	19,051	229,228
Kerosine	6,154	3,799	2,782	2,355	2,263	2,420	3,662	3,467	2,972	3,452	4,056	4,775	42,157
Distillate fuel oil	20,085	16,712	16,620	13,352	12,800	11,803	10,869	12,714	10,540	10,721	14,186	17,418	167,810
Residual fuel oil	3,501	3,392	2,880	3,725	3,570	2,867	3,067	3,152	3,635	4,106	4,508	5,027	43,430
Lubricating oils	604	430	641	743	746	667	749	530	638	827	673	663	7,911
Miscellaneous oils	718	604	720	874	1,008	904	516	1,340	1,404	561	689	985	10,323
Total	66,185	59,913	59,098	57,845	50,707	49,213	54,656	57,748	47,468	48,036	54,662	62,124	667,655
1960:													
Crude petroleum	15,105	11,740	14,680	12,652	13,371	11,836	14,152	13,501	13,037	12,589	12,786	15,049	160,498
Gasoline	20,576	18,101	17,953	20,603	22,704	20,045	21,464	21,535	19,512	21,576	20,790	19,868	244,727
Kerosine	5,242	3,762	4,116	2,801	2,285	2,991	3,212	3,696	3,211	3,954	4,089	4,727	44,086
Distillate fuel oil	19,934	15,879	16,173	11,765	12,219	11,506	10,451	12,678	11,938	15,486	16,449	19,032	173,510
Residual fuel oil	3,830	3,598	3,468	4,734	4,318	3,983	3,841	3,681	4,074	4,650	5,050	4,846	50,073
Lubricating oils	638	549	652	593	648	686	815	651	519	816	637	580	7,784
Miscellaneous oils	852	772	852	1,472	1,980	1,171	1,162	1,176	1,100	1,182	956	1,018	13,693
Total	66,177	54,401	57,894	54,620	57,525	52,218	55,097	56,918	53,391	60,253	60,757	65,120	694,371

[1] Source: Office of Oil and Gas, U.S. Department of the Interior.

FOREIGN TRADE

Foreign trade statistics in this section, as reported by the U.S. Department of Commerce, differ slightly from those used in other sections of this chapter. Imports of crude petroleum and unfinished oils (table 85) are obtained from petroleum refining companies to be consistent with the refinery balance; therefore, they may differ from the totals reported by the Commerce Department. The Bureau of Mines import data excludes all imports from foreign sources to U.S. territories and possessions and include as exports all petroleum shipments to these territories and possessions from the United States.

Imports.—According to Commerce Department data, imports of crude petroleum and petroleum products totaled 686.7 million barrels in 1960, compared with 674.2 million in 1959. Receipts from Canada and Mexico supplied 11.9 million barrels of the increase in imports for 1960. Overland imports from these two countries are exempt from the mandatory import control program.

While the total residual fuel oil imported in 1960 was above the 1959 level, the quantity imported for onshore use was much less than the previous year. Residual imported duty free for use as bunker fuel for vessels engaged in foreign trade furnished the increase.

Exports.—Total exports, excluding shipments to the territories, continued to decline in 1960. Exports of the principal products, gasoline, kerosine, distillate and residual fuel oil were 9.0 million barrels less in 1960, but exports of the other products were 5.0 million barrels more than in 1959.

TABLE 85.—Petroleum oils, crude and refined, imported into the United States, 1959–60, by months [1]

(Thousand barrels)

Year and class	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1959: [2]													
Crude petroleum	28,664	29,467	28,113	22,270	29,089	36,147	27,510	29,943	29,486	30,355	29,421	31,879	352,344
Refined products:													
Gasoline	1,174	1,381	2,363	838	417	1,367	422	534	908	830	1,489	1,635	13,358
Kerosine			113						1				114
Distillate fuel oil	1,650	1,674	3,505	1,877	811	1,801	1,055	818	1,181	675	822	1,789	17,658
Residual fuel oil	26,241	26,476	31,394	15,066	14,293	14,734	12,122	12,211	14,377	12,867	20,311	22,479	222,571
Jet fuel	2,201	1,215	851	1,307	480	515	952	697	2,285	643	994	1,432	13,572
Wax	1		2	1	3		1	5	2	3	2	1	21
Asphalt	690	319	643	379	295	914	681	945	730	554	308	411	6,869
Miscellaneous												4	4
Unfinished oils	4,681	5,795	1,870	698	1,018	1,611	2,024	1,387	1,242	1,079	793	874	23,072
Total refined	36,638	36,860	40,741	20,166	17,317	20,942	17,257	16,597	20,726	16,651	24,719	28,625	297,239
Total crude and refined	65,302	66,327	68,854	42,436	46,406	57,089	44,767	46,540	50,212	47,006	54,140	60,504	649,583
1960: [3]													
Crude petroleum	28,610	29,730	29,292	33,877	30,571	32,730	31,191	32,768	32,691	31,458	29,980	28,677	371,575
Refined products:													
Gasoline	257	635	467	661	571	1,254	1,037	948	1,396	840	781	943	9,790
Kerosine									18		39	29	86
Distillate fuel oil	1,610	1,095	1,229	1,520	1,342	1,148	796	773	1,005	897	621	1,097	13,133
Residual fuel oil	26,366	24,649	25,790	19,567	15,590	17,098	13,955	14,966	15,523	15,976	21,885	22,780	234,145
Liquefied petroleum gases [4]	164	166	119	151	161	133	61	69	96	123	225	163	1,631
Jet fuel	608	1,415	863	580	1,552	1,289	1,262	880	782	907	1,117	1,383	12,638
Wax	1	1	2		1	1							6
Asphalt	444	196	220	609	292	1,179	636	564	542	486	546	408	6,122
Miscellaneous		5	1	2	2	8	18	1	14	12	2	4	69
Unfinished oils	1,263	1,215	1,275	1,524	1,200	1,373	1,786	1,292	1,258	1,748	1,448	1,096	16,478
Total refined	30,713	29,377	29,966	24,614	20,711	23,483	19,551	19,493	20,634	20,989	26,664	27,903	294,098
Total crude and refined	59,323	59,107	59,258	58,491	51,282	56,213	50,742	52,261	53,325	52,447	56,644	56,580	665,673

[1] Imports of crude reported to the Bureau of Mines; imports of refined products compiled from records of the U.S. Department of Commerce.

[2] Includes Alaska as part of the United States; there were no Hawaiian imports for 1959.

[3] Includes Alaska and Hawaii.

[4] Prior to 1960 imports of liquefied petroleum gases were not collected separately but were included with gasoline imports.

TABLE 86.—Crude petroleum and petroleum products imported for consumption into the United States, 1959–60, by country [1]

(Thousand barrels)

Country	Crude petroleum	Gasoline [2]	Kerosine [3]	Distillate oils [4]	Residual oil [4]	Asphalt	Unfinished oil	Miscellaneous oils [5]	Total
1959:									
North America:									
Canada	33,902	1,189	------	241	521	(6)	152	(6)	36,005
Cuba	------	65	------	78	1,863	------	------	------	2,006
Mexico	229	------	------	239	7 12,492	------	------	19	7 12,979
Netherlands Antilles	7 812	714,763	12	7 6,993	7 92,644	4,190	7 3,359	4	122,777
Trinidad and Tobago	92	1,133	------	425	7,180	128	3,317	------	12,275
Other North America	------	------	------	------	13	------	------	------	13
Total	7 35,035	717,150	12	7 7,976	7114,713	4,318	7 6,828	23	7186,055
South America:									
Brazil	1,012	------	------	------	99	------	------	------	1,111
Colombia	11,525	------	------	1	502	------	------	------	12,028
Venezuela	195,240	3,307	113	7 6,702	7100,590	2,663	9,618	(6)	7318,233
Other South America	------	------	------	------	------	1	------	(6)	1
Total	207,777	3,307	113	7 6,703	7101,191	2,664	9,618	(6)	7331,373
Europe:									
Italy	------	139	------	24	877	------	403	(6)	1,443
United Kingdom	------	(6)	(6)	------	407	------	------	(6)	407
Other Europe	------	(6)	------	15	154	(6)	------	(6)	169
Total	------	139	(6)	39	1,438	(6)	403	(6)	2,019
Asia:									
Bahrein	------	132	------	38	265	------	------	------	435
Indonesia	24,235	------	------	------	------	------	------	------	24,235
Iran	9,699	------	------	------	------	------	------	------	9,699
Iraq	8,541	------	------	------	------	------	------	------	8,541
Japan	------	262	------	------	------	------	998	2	1,262
Kuwait	72,201	150	------	------	5,706	------	5,280	------	83,337
Qatar [8]	7 733	------	------	------	------	------	------	------	7 733
Saudi Arabia	7 26,187	36	------	------	93	------	------	------	7 26,316
Other Asia	189	------	------	------	------	------	------	------	189
Total	7141,785	580	------	38	6,064	------	6,278	2	7154,747
Africa: Canary Islands	------	------	------	------	8	------	------	------	8
Grand total	7384,597	721,176	125	714,756	7223,414	6,982	723,127	25	7674,202
Shipments from noncontiguous Territories to the United States: Puerto Rico [9]	------	6,531	1	2,910	4,567	------	------	------	14,009
Imports into noncontiguous Territories from foreign countries: Puerto Rico	24,082	718	12	13	1,286	113	3,235	------	29,459
Total net imports into the United States	7360,515	726,989	114	717,653	7226,695	6,869	719,892	25	7658,752
1960:									
North America:									
Canada	40,866	2,582	1	131	397	1	93	5	44,076
Cuba	------	------	------	------	181	1	------	------	182
Mexico	766	------	------	------	5,037	------	------	5	5,808
Netherlands Antilles	2,021	8,253	2	4,340	94,310	3,716	3,638	47	116,327
Trinidad and Tobago	219	3,401	------	------	12,261	19	2,019	------	17,919
Other North America	------	------	------	------	202	------	------	------	202
Total	43,872	14,236	3	4,471	112,388	3,737	5,750	57	184,514
South America:									
Brazil	309	------	------	------	107	(6)	------	------	416
Colombia	15,489	------	------	------	15	------	------	------	15,504
Venezuela	200,528	4,151	67	5,320	113,686	2,504	7,333	------	333,589
Other South America	------	------	------	------	------	(6)	------	------	(6)
Total	216,326	4,151	67	5,320	113,808	2,504	7,333	------	349,509

See footnotes at end of table.

TABLE 86.—Crude petroleum and petroleum products imported for consumption into the United States, 1959–60, by country [1]—Continued

(Thousand barrels)

Country	Crude petroleum	Gasoline [2]	Kerosine [3]	Distillate oils [4]	Residual oil [4]	Asphalt	Unfinished oil	Miscellaneous oils [5]	Total
1960—Continued									
Europe:									
Italy		(6)			65	16	178		259
United Kingdom		(6)	(6)	(6)			(6)	6	6
Other Europe		29		1	41	(6)	(6)	13	84
Total		29	(6)	1	106	16	178	19	349
Asia:									
Bahrein					1,436				1,436
Indonesia	28,054							(6)	28,054
Iran	11,170				1		1,267		12,438
Iraq	7,927								7,927
Japan		244			119		1,515		1,878
Kuwait	60,402	151			1,706		4,343		66,602
Qatar [8]	1,408				1				1,409
Saudi Arabia	29,989	37			716		44		30,786
Other Asia	239	22			115				376
Total	139,189	454			4,094		7,169	(6)	150,906
Africa:									
Algeria	284								284
United Arab Republic (Egypt region)	1,175								1,175
Total	1,459								1,459
Grand total	400,846	18,870	70	9,792	230,396	6,257	20,430	76	686,737
Shipments from noncontiguous Territories to the United States: Puerto Rico		5,937		3,003	4,100				13,040
Imports into noncontiguous Territories from foreign countries: Puerto Rico	26,537	1,012	(6)	23	1,287	119	2,789	(6)	31,767
Total net imports into the United States	374,309	23,795	70	12,772	233,209	6,138	17,641	76	668,010

[1] Compiled by Mae B. Price and Elsie D. Jackson, of the Bureau of Mines, from records of the Bureau of the Census, U.S. Department of Commerce.
[2] Includes jet fuel liquified gases and naphtha, but excludes benzol (1959: 1,365,000 barrels; 1960: 907,791).
[3] 1960 includes quantities imported free for supplies of vessels and aircraft; assumed to be commercial jet fuel by Bureau of Mines.
[4] Includes some quantities imported free for manufacture in bond and export and for vessels and aircraft.
[5] Includes some quantities imported free for supplies of vessels and aircraft.
[6] Less than 1,000 barrels.
[7] Revised figure.
[8] Assumed source; classified in import statistics under "Arabia Peninsular States, n.e.c."
[9] As reported to Bureau of Mines by shipping companies.

Source: Bureau of the Census.

TABLE 87.—Petroleum oils, crude and refined, shipped from the United States, including shipments to Territories and possessions, by classes and months [1]

Year and Class	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1959: [3]													
Crude petroleum	352	97	178	230	267	192	174	237	151	258	132	258	2,526
Refined products:													
Gasoline [3]	1,699	1,514	1,379	2,216	2,081	1,724	2,004	1,555	1,741	1,717	1,414	1,842	20,886
Kerosine	76	26	42	33	23	71	41	77	155	47	52	387	1,030
Distillate fuel oil	1,273	843	1,430	965	1,105	1,251	906	1,682	989	865	851	1,195	13,355
Residual fuel oil	3,234	2,345	2,703	2,572	1,950	2,499	2,145	1,554	1,887	2,403	1,339	1,409	26,040
Jet fuel	----------	35	14	1	27	5	2	72	14	78	62	79	389
Lubricants	1,053	957	1,178	1,404	1,185	1,224	1,278	1,160	1,030	1,265	859	1,483	14,076
Paraffin wax	72	82	96	85	92	95	82	75	93	76	86	100	1,034
Coke	431	197	304	334	383	433	436	407	447	496	354	458	4,680
Asphalt	70	63	128	62	94	73	112	75	85	118	90	64	1,034
Liquefied gases	205	172	188	192	166	196	179	188	160	201	187	218	2,252
Miscellaneous oils	25	18	18	24	27	19	25	25	27	19	17	29	273
Total refined	8,138	6,252	7,480	7,888	7,133	7,590	7,210	6,870	6,628	7,285	5,311	7,264	85,049
Total crude and refined	8,490	6,349	7,658	8,118	7,400	7,782	7,384	7,107	6,779	7,543	5,443	7,522	87,575
1959: [4]													
Crude petroleum	352	97	178	230	267	192	174	237	151	258	132	258	2,526
Refined products:													
Gasoline [3]	1,329	1,276	1,150	1,795	1,731	1,325	1,690	1,070	1,485	1,283	1,094	1,515	16,743
Kerosine	57	26	30	26	23	63	34	70	147	45	45	378	944
Distillate fuel oil	1,245	808	1,423	914	1,076	1,190	841	1,604	951	790	717	1,175	12,734
Residual fuel oil	2,873	1,862	2,288	2,005	1,525	2,133	1,871	1,008	1,417	2,033	842	958	20,815
Jet fuel	----------	35	1	----------	----------	----------	----------	50	----------	30	16	41	173
Lubricants	1,047	949	1,172	1,401	1,171	1,211	1,270	1,150	1,019	1,256	848	1,478	13,972
Paraffin wax	72	82	95	84	91	95	82	75	93	76	86	100	1,031
Coke	431	197	304	334	383	433	436	407	447	496	354	458	4,680
Asphalt	60	63	114	56	83	71	97	75	73	113	71	59	935
Liquefied gases	205	172	188	192	166	196	179	188	160	201	187	218	2,252
Miscellaneous oils	25	18	17	20	26	18	24	24	26	18	17	29	262
Total refined	7,344	5,488	6,782	6,827	6,275	6,735	6,524	5,721	5,818	6,341	4,277	6,409	74,541
Total crude and refined	7,696	5,585	6,960	7,057	6,542	6,927	6,698	5,958	5,969	6,599	4,409	6,667	77,067

1960: [5]													
Crude petroleum	264	299	260	270	127	436	248	89	234	352	----------	512	3,091
Refined products:													
Gasoline [3]	916	914	1,284	1,607	1,436	1,307	1,115	1,160	1,107	1,130	747	745	13,468
Kerosine	106	93	76	35	76	19	26	157	7	18	11	63	687
Distillate fuel oil	789	981	998	779	1,176	1,163	916	751	484	580	556	641	9,814
Residual fuel oil	1,728	1,685	1,767	1,688	1,484	1,967	875	1,888	1,357	1,283	1,304	1,515	18,541
Jet fuel	57	----------	1	----------	----------	1	20	4	10	----------	20	----------	113
Lubricants	1,196	1,040	1,333	1,422	1,318	1,559	1,478	1,088	1,258	1,386	1,353	1,389	15,820
Paraffin wax	99	110	105	93	109	116	91	116	118	130	122	124	1,333
Coke	558	396	428	493	528	693	868	431	656	753	654	398	6,856
Asphalt	34	59	74	91	56	87	65	72	136	97	81	69	921
Liquefied gases	232	206	214	246	219	222	262	251	240	244	295	357	2,988
Miscellaneous oils	19	21	22	23	19	21	26	20	20	20	21	25	257
Total refined	5,734	5,505	6,302	6,477	6,421	7,155	5,742	5,938	5,393	5,641	5,164	5,326	70,798
Total crude and refined	5,998	5,804	6,562	6,747	6,548	7,591	5,990	6,027	5,627	5,993	5,164	5,838	73,889

[1] Compiled from records of U.S. Department of Commerce.
[2] Includes shipments to Hawaii compiled from Bureau of Mines data.
[3] Includes benzol, naphtha, natural gasoline, and antiknock compounds.
[4] For comparison with 1960, excludes shipments to Hawaii.
[5] Preliminary figures.

TABLE 88.—Crude petroleum and petroleum products exported from the United States by country of destination, and shipments to and exports from territories and possessions [1]

(Thousand barrels)

Country	Crude petroleum	Gasoline [2 3]	Kerosine	Distillate oil	Residual oil	Lubricating oil [3]	Asphalt	Liquefied petroleum gases	Wax	Coke	Petrolatum	Miscellaneous products [2]	Total
1959:													
North America:													
Canada	(4)	3,696	661	[5] 3,364	4,946	1,207	116	90	166	1,626	14	175	[5] 16,061
Cuba		114		40	83	238	3	89	30	(4)	2	14	613
El Salvador		12			129	20			8		1	2	172
Mexico	21	3,232	127	512	1,810	130	269	2,023	142	(4)	10	42	8,318
Netherlands Antilles		53		267	1,177	18			1		(4)	(4)	1,516
Other North America		260	17	143	778	316	49	32	56		9	17	1,677
Total	21	7,367	805	[5] 4,326	8,923	1,929	437	2,234	403	1,626	36	250	[5] 28,357
South America:													
Argentina		5		1		29	1	2	1			(4)	39
Brazil		69		100		1,170	2		51	27	10	1	1,430
Chile		1	1	20	863	167	56		25		1	11	1,145
Colombia		80			19	186	(4)	1	104		3	8	401
Peru		868			99	98	(4)		22		1	9	1,097
Venezuela		175				256	5	2	20		2	26	486
Other South America		4		(4)		105	3		34	(4)	2	7	155
Total		1,202	1	121	981	2,011	67	5	257	27	19	62	4,753
Europe:													
Belgium-Luxembourg		76	1	9	152	720	1	(4)	9	247	4	7	1,226
France	550	883		(4)		60	1		35	236	4	2	1,771
Germany, West		356	6		624	370	(4)	3	19	1	10	2	1,391
Italy		939		1		272	2	(4)	17	341	6	10	1,588
Netherlands		131	1			404	(4)	(4)	28	60	10	9	643
Sweden		167	1	28	627	296	(4)		8	34	2	8	1,171
United Kingdom	405	1,280	90	2,723	1,251	1,108	(4)	(4)	59	49	31	1	6,997
Other Europe		764	(4)	89	81	[5] 695	5	(4)	33	568	9	31	[5] 2,275
Total	955	4,596	99	2,850	2,735	[5] 3,925	9	3	208	1,536	76	70	[5] 17,062
Asia:													
India		43	(4)			706	6		1	52	13	40	861
Indonesia		214				160	3		5		12	1	395
Japan-Nansei and Nanpo Islands	1,548	207	1	5,241	8,250	1,093	5	4	22	1,288	29	13	17,701
Malaya and Singapore		235		(4)		61	(4)				2	2	300
Philippines		117	(4)			411	84		12		15	15	654
Turkey		333				289			2		1	18	643
Other Asia		463	1		71	975	15	1	70	27	20	43	1,686
Total	1,548	1,612	2	5,241	8,321	3,695	113	5	112	1,367	92	132	22,240

Africa:													
Belgian Congo		33	2		15	82	27				(4)	4	163
French West Africa and Republic of Togo		4	3	5	98	9	4				(4)	1	124
Union of South Africa		22	1			440	85		34		22	17	621
United Arab Republic (Egypt region)		173	(4)			234			(4)		(4)	7	414
Other Africa		450	8	73	138	229	63		2	75	4	19	1,061
Total		682	14	78	251	994	179		36	75	26	48	2,383
Oceania:													
Australia		16	2	12	102	802	(4)		11	49	8	1	1,003
French Pacific Islands		38	9	66	6	6	1	1				(4)	127
New Zealand		4	1			122	1	2	4		3		137
Other Oceania		1	1	4		(4)	6	1				(4)	13
Total		59	13	82	108	930	8	4	15	49	11	1	1,280
Grand total	2,524	15,518	934	[5] 12,698	21,319	[5] 13,484	813	2,251	1,031	4,680	260	563	[5] 76,075
Shipments from the United States to Territories and possessions:													
Hawaii [6]		4,144	86	624	5,225	104	99		3		(7)	227	10,512
Puerto Rico	(7)	401	100		(7)	87	99	(7)	(7)	(7)	(7)	6	693
Wake	(7)	855	(4)	12	(7)	(4)	2	(7)	(7)	(7)	(7)	(4)	869
Other	(7)	94	14	104	(7)	3	20	(7)	(7)	(7)	(7)	(4)	235
Total		5,494	200	740	5,225	194	220		3		(7)	233	[5] 12,309
Exports from noncontiguous Territories and possessions to foreign countries:													
Hawaii		(4)		3									3
Puerto Rico		113	2	77	503	(4)	(4)						695
Total		113	2	80	503	(4)	(4)						698
Total net shipments from the United States	2,524	20,899	1,132	[5] 13,358	26,041	[5] 13,678	1,033	2,251	1,034	4,680	260	796	[5] [6] 87,686

See footnotes at end of table.

TABLE 88.—Crude petroleum and petroleum products exported from the United States by country of destination, and shipments to and exports from Territories and possessions—Continued

Country	Crude petroleum	Gasoline [3]	Kerosine	Distillate oil	Residual oil	Lubricating oil	Asphalt	Liquefied petroleum gases	Wax	Coke	Petrolatum	Miscellaneous products	Total
1960:													
North America:													
Canada	(4)	2,685	196	1,865	4,004	1,232	74	125	148	2,225	13	55	12,622
Cuba	(4)	34				130	(4)	29	31		2	8	234
El Salvador		5	(4)		40	21	1		7		1	2	77
Mexico	(4)	2,299	63	224	553	132	283	2,663	173	(4)	12	26	6,428
Netherlands Antilles		1,856				16	(4)		(4)		(4)	(4)	1,872
Other North America		116	14	118	324	310	79	73	76	(4)	7	15	1,132
Total	(4)	6,995	273	2,207	4,921	1,841	437	2,890	435	2,225	35	106	22,365
South America:													
Argentina		(4)	129	(4)		23	1	91	1		(4)	(4)	245
Brazil		57	7	38		1,300	1		89	47	12	2	1,553
Chile		(4)	(4)		305	219	87		24		1	10	646
Colombia		4		(4)		187	1	(4)	147		3	7	349
Peru		338			40	126	1		20		1	9	535
Venezuela		289	(4)	(4)		224	4	(4)	15	(4)	3	8	543
Other South America		6	(4)	1		173	32	(4)	38		2	13	265
Total		694	136	39	345	2,252	127	91	334	47	22	49	4,136
Europe:													
Belgium-Luxembourg		40	1			785	1		12	276	3	10	1,128
France	568	566		(4)	106	53	(4)	(4)	42	251	4	1	1,591
Germany, West		32	12	5	271	463	(4)	(4)	111	163	10	4	1,071
Italy		985	(4)		249	438	2	1	15	474	3	17	2,184
Netherlands		209	1	988	184	515	(4)		40	99	12	9	2,057
Sweden		19	(4)		127	398	1	(4)	8	36	3	9	601
United Kingdom	433	523	72	196	1,628	1,236	1	(4)	75	77	31	1	4,273
Other Europe		479	(4)	46	58	856	7		52	806	8	19	2,331
Total	1,001	2,853	86	1,235	2,623	4,744	12	1	355	2,182	74	70	15,236
Asia:													
India		59	1			873	8	(4)	1	48	18	7	1,015
Indonesia		395		160		169	1		1		5	1	732
Japan-Nansei and Nanpo Islands	2,086	298	5	5,976	10,313	1,569	8	1	40	2,160	28	114	22,598
Malaya and Singapore		(4)				89	(4)		1		4	5	99
Philippines		37	53	17		348	11		8		10	16	500
Turkey		146	1			392	5		2		(4)	8	554
Other Asia		210	(4)			1,049	25	(4)	100	40	17	62	1,503
Total	2,086	1,145	60	6,153	10,313	4,489	58	1	153	2,248	82	213	27,001

Africa:													
Congo, Republic of the and Ruanda-Urandi [8]		4	1			59	6			(4)	(4)	3	73
Union of South Africa		13	(4)		100	479	97	(4)	38		25	18	770
United Arab Republic (Egypt region)		25				256	(4)		(4)		(4)	19	300
Western Africa, n.e.c. [9]		42	1	8	91	11	6				(4)	1	160
Other Africa		541	9	(4)	6	301	38	(4)	5	102	8	19	1,029
Total		625	11	8	197	1,106	147	(4)	43	102	33	60	2,332
Oceania:													
Australia		1	2	3	291	727	1		11	54	9	2	1,101
French Pacific Islands		63	19	114	1	6	(4)	2				(4)	205
New Zealand		4	1			155	1	3	3		3	(4)	170
Other Oceania		(4)	2	1	4	(4)	4	1				(4)	12
Total		68	24	118	296	888	6	6	14	54	12	2	1,488
Grand total	3,087	12,380	590	9,760	18,695	15,320	787	2,989	1,334	6,858	258	500	72,558
Shipments from the United States to Territories and possessions:													
Puerto Rico		171	89	(4)	(7)	95	126	(7)	(7)	(7)	(7)	6	487
Wake		718	(4)	39	(7)	(4)	1	(7)	(7)	(7)	(7)	(4)	758
Other		252	16	138	(7)	8	9	(7)	(7)	(7)	(7)	(4)	423
Total		1,141	105	177	(7)	103	136	(7)	(7)	(7)	(7)	6	1,668
Exports from Territories to foreign countries: Puerto Rico		66	7	123	202	(4)	1	(4)				(4)	399
Total net shipments from the United States	3,087	13,455	688	9,814	18,493	15,423	922	2,989	1,334	6,858	258	506	73,827

[1] Compiled by Mae B. Price and Elsie D. Jackson, of the Bureau of Mines, from records of the Bureau of the Census.

[2] Country and continent data include complete distribution of classes formerly not published for security reasons.

[3] Includes naphtha but excludes benzol: 1959, 174,000 barrels; 1960, 561,000 barrels.

[4] Less than 1,000 barrels.

[5] Revised figure.

[6] Figures represent shipments from refining companies through Pacific coast ports, as reported to Bureau of Mines by shippers.

[7] Not separately classified.

[8] Effective July 1, 1960; formerly Belgian Congo.

[9] Effective July 1, 1960; formerly French West Africa and Republic of Togo.

Source: Bureau of the Census.

WORLD SUPPLY AND DEMAND

PETROLEUM [5]

Production of crude petroleum in the free world in 1960 increased 6.6 percent to 6,474 million barrels. Output of refined products increased 7.6 percent to 6,785 million barrels, and demand for refined products rose 7.7 percent to 6,723 million barrels, according to the Bureau of Mines. Within the Sino-Soviet bloc, estimated crude production during the year was 1,210 million barrels, or 14.3 percent above 1959; output of refined products was 1,142 million barrels, an increase of 12.0 percent; and demand for refined products was 1,052 million barrels, or 10.6 percent above the preceding year.

About 84 percent of world crude production in 1960 was in the free world and 16 percent in the Sino-Soviet bloc. Western Hemisphere crude production, representing about two-thirds of the free world total, increased less than 2 percent in 1960. In the United States, reduction of petroleum stocks and increasing competition from imports and natural gas held domestic production to the 1959 level. Canadian output increased 8 million barrels and Mexican output, 3 million barrels during the year. In South America, the relatively modest expansion in crude production was mainly in Venezuela and Argentina where output rose 30 million barrels and 19 million barrels, respectively.

In contrast, crude production in the Eastern Hemisphere in 1960 rose an impressive 16.2 percent and supplied about one-third of the free world total. Middle East output increased 243 million barrels with significant expansion in the four major producing countries—Kuwait, Saudi Arabia, Iran, and Iraq. In Africa, French Sahara output continued its rapid rise, reaching a total of 67 million barrels, compared with 10 million barrels in 1959. There was also expansion in Egypt and Nigeria, but no commercial production in Libya. Output is scheduled to begin in Libya in 1961 when pipelines under construction are completed. In South Asia, Indonesian production was up 14 million barrels, or 10 percent in 1960, while output from limited reserves in British Borneo was down 15 percent, or 6 million barrels below 1959. In the Sino-Soviet bloc, an estimated increase of 151 million barrels in crude production in 1960 was mainly in the U.S.S.R. Output of 1,080 million barrels in that country exceeded Venezuela and ranked second in world production after the United States.

Movements of crude petroleum within the free world in 1960 were about 12 percent above 1959. Net shipments from the Soviet bloc to the free world during the year are estimated at 54 million barrels, or 13 million barrels more than in 1959. (The apparent gap between total imports in the free world and exports and reexports in 1960 reflects these Soviet bloc crude shipments.)

In Western Europe, crude receipts rose 169 million barrels, or 16 percent in 1960, reflecting expanding refinery activity in the area, particularly in West Germany, Italy, the Netherlands, and the United Kingdom. In the South Asia-Far East-Oceania area, receipts

[5] J. V. Hightower, Commodity-Industry Analyst.

were up 76 million barrels, or 27 percent. Most of this went to Japan, which imported a total of 196 million barrels during the year. There were also significant increases in imports into Australia and India. In the Western Hemisphere, United States imports increased 19 million barrels or 5.4 percent, and Canadian imports were up 10 million barrels or 9 percent. Area receipts in South America declined 2 percent or 8 million barrels, mainly owing to reductions in Argentina, the Netherlands Antilles, and Brazil. Trinidad imports increased 9 million barrels during the year.

Stimulated by expanding markets in Europe and the Far East, Middle East crude shipments in 1960 were up 200 million barrels or 14 percent. African shipments increased 56 million barrels or 244 percent mainly from the French Sahara. In South Asia, shipments rose 13 million barrels or 14 percent mainly from Indonesia, while British Borneo exports continued to decline. In the Western Hemisphere, there was no appreciable change in shipments from 1959. A modest increase of 1.0 percent or 12 million barrels occurred in South American exports, mainly Venezuela and Colombia, while Canadian exports rose 9 million barrels or 27 percent.

The free world supplied 86 percent of the world output of refined products in 1960 and the Sino-Soviet bloc, 14 percent. The gain of 482 million barrels in free world output during the year was chiefly in the Eastern Hemisphere. In Western Europe output rose 196 million barrels, mainly in West Germany, the United Kingdom, Italy, and France. Middle East output increased 54 million barrels, mainly in Saudi Arabia, Iraq and Iran. In the South Asia, Far East and Oceania area, output was up 84 million barrels, chiefly in Japan, with significant gains in Australia and India as well. In the Sino-Soviet bloc, most of the estimated increase of 122 million barrels in refined products output in 1960 was in the U.S.S.R.

Among the major refined products in 1960, free world output of gasoline rose 4 percent to 2,259 million barrels; kerosine and jet fuel, 10 percent to 472 million barrels; distillate fuel oil, 2 percent to 1,353 million barrels; residual fuel oil, 13 percent to 1,784 million barrels; lubricants and grease, 7 percent to 91 million barrels; and other refined products, 9 percent to 615 million barrels.

The total of 1,197 million barrels of refined products imported by free world countries in 1960 is believed to be understated. Actual imports are considered to have been about 1,433 million barrels. This estimate is based on total exports and reexports within the free world of 1,342 million barrels and estimated deliveries of 91 million barrels for the Soviet bloc. Understated imports are due in part to the failure of many countries to report in their trade statistics entries or withdrawals from bond and military receipts.

Western European imports of products in 1960 were 53 million barrels or 14 percent greater than in 1959; the increase was mostly residual fuel oil. In the South Asia-Far East-Oceania area, imports were up 15 million barrels, or 9 percent; most of this went to Japan. Imports by free world countries from the Soviet bloc in 1960 are estimated at 91 million barrels or 21 million barrels greater than in 1959. In the Western Hemisphere, South American imports declined 10 percent or 8 million barrels, mainly in the Netherlands Antilles and Argentina.

On the export side, product movements in South America were up 72 million barrels in 1960, or 15 percent, principally from Venezuela and Trinidad, with a decline in shipments from the Netherlands Antilles. In the United States, product shipments declined 14 million barrels or 17 percent. In Western Europe, exports were up 50 million barrels or 20 percent above 1959. Middle East shipments rose 41 million barrels or 18 percent above 1959.

Based on reported or calculated apparent domestic demand in individual countries, total world demand for refined products in 1960 was 7,775 million barrels. Of this 86 percent was in the free world and 14 percent in the Sino-Soviet bloc.

The United States with 34 percent of world crude production in 1960 furnished 46 percent of world demand for refined products. During the year the country's domestic demand increased 103 million barrels. Demand rose in South America 12 million barrels, expanding in most of the countries. Western European demand rose 212 million barrels; the increase was mostly in West Germany, France, and the United Kingdom. In the South Asia-Far East-Oceania area, demand increased 88 million barrels; most of the gain was in Japan, where demand rose 48 percent, and India, where demand rose 23 percent. Among the major products in free world demand in 1960, gasoline rose 4 percent to 2,228 million barrels; kerosine and jet fuel, 12 percent to 439 million barrels; distillate fuel oil, 9 percent to 1,327 million barrels; residual fuel oil, 9 percent to 1,732 million barrels; lubricants and grease, 8 percent to 91 million barrels; and other products including petrochemical offtake, 9 percent to 696 million barrels.

The new supply of refined products in the free world in 1960, including refinery fuel and loss, is estimated at 7,100 million barrels or 9 percent greater than in 1959. Estimated new supply of refined products is calculated from the free world output of 6,785 million barrels plus 91 million barrels of products shipped to the free world from the Soviet bloc plus 174 million barrels of natural-gas liquids produced in the United States and used directly for chemicals and fuels but not included in refinery output plus an estimated 50 million barrels of similar natural-gas liquids in other free world countries. The gap of 377 million barrels between the estimated new supply of 7,100 million barrels and the demand of 6,723 million barrels is attributed to understated imports (estimated at 236 million barrels in 1960) and calculation of demand in a number of countries on an apparent basis with no account of stock changes.

TABLE 89.—World production of crude petroleum by countries [1]

(Thousand barrels [2])

Country	1956	1957	1958	1959	1960 [3]
North America:					
Canada	171,981	181,848	165,496	184,778	191,842
Cuba [4]	543	395	344	192	[5] 108
Mexico	90,660	88,266	93,533	96,393	99,049
Trinidad	28,929	34,064	37,355	40,919	42,357
United States	2,617,283	2,616,901	2,449,016	2,574,590	2,574,933
Total	2,909,396	2,921,474	2,745,744	2,896,872	2,908,289

See footnotes at end of table.

TABLE 89.—World production of crude petroleum by countries [1]—Continued

(Thousand barrels [2])

Country	1956	1957	1958	1959	1960 [3]
South America:					
Argentina	31,013	33,952	35,829	44,710	64,232
Bolivia	3,196	3,575	3,435	3,170	3,574
Brazil	4,059	10,106	18,919	23,590	29,613
Chile	3,542	4,337	5,568	6,428	7,231
Colombia	44,968	46,782	46,901	53,576	55,666
Ecuador	3,420	3,191	3,108	2,759	2,730
Peru	18,383	19,222	18,732	17,733	19,255
Venezuela	899,212	1,014,457	950,796	1,011,452	1,041,708
Total	1,007,793	1,135,622	1,083,288	1,163,418	1,224,009
Europe:					
Albania	1,868	3,268	2,690	3,504	3,650
Austria	23,622	21,955	19,548	16,946	16,874
Bulgaria	1,691	2,095	1,632	1,402	1,460
Czechoslovakia	732	732	950	803	730
France	9,100	10,157	9,983	11,594	14,229
Germany, West	25,408	28,698	32,119	36,981	40,076
Hungary	9,172	5,150	6,325	7,665	8,760
Italy	4,209	8,593	10,531	11,551	13,545
Netherlands	7,652	10,623	11,306	12,367	13,378
Poland	1,363	1,341	1,298	1,277	1,460
Rumania	81,390	83,327	84,490	83,492	87,600
U.S.S.R. [6]	611,740	717,926	826,477	945,340	1,080,400
United Kingdom	489	606	591	621	649
Yugoslavia	2,076	2,797	3,267	4,188	6,671
Total [6]	780,512	897,268	1,011,207	1,137,731	1,289,482
Asia:					
Bahrein	11,015	11,691	14,823	16,473	16,500
Burma	1,837	2,958	3,454	3,967	4,078
China [5]	4,700	5,000	6,000	15,330	26,280
India	2,876	3,241	3,258	3,377	3,370
Indonesia	93,820	114,151	118,711	139,038	152,988
Iran	197,148	263,134	301,361	344,800	390,754
Iraq	232,307	163,498	266,125	311,193	353,833
Israel	146	394	642	925	930
Japan	2,169	2,243	2,563	2,852	3,678
Kuwait	399,874	416,045	509,654	504,855	594,278
Kuwait-Neutral Zone	11,684	23,259	29,469	42,438	49,829
Pakistan	2,118	2,200	2,272	2,333	2,636
Qatar	45,300	50,798	63,412	61,431	63,088
Sarawak and Brunei	42,983	41,821	39,551	40,072	34,005
Saudi Arabia	360,923	362,121	370,486	399,821	456,453
Taiwan (Formosa)	21	17	15	13	14
Turkey	2,213	2,159	2,379	2,700	2,624
Total [6]	1,411,134	1,464,730	1,734,175	1,891,618	2,155,338
Africa:					
Algeria	253	101	[7] 3,315	[7] [8] 10,625	[7] 67,408
Angola	52	71	358	361	477
Congo, Republic of (formerly French)					365
Gabon, Republic of		1,207	3,550	5,295	5,626
Morocco: Southern zone	734	566	560	712	695
Nigeria			1,970	4,067	6,552
United Arab Republic (Egypt region)	12,185	16,157	21,960	21,303	23,968
Total	13,224	18,102	31,713	42,363	105,091
Oceania:					
Netherlands New Guinea	2,610	2,279	1,850	1,656	1,538
New Zealand	7	6	5	5	[5] 5
Total	2,617	2,285	1,855	1,661	1,543
World total	6,124,676	6,439,481	6,607,982	[8] 7,133,663	7,683,752

[1] This table incorporates some revisions.
[2] 42 gallon barrels.
[3] Preliminary figures.
[4] Natural naphtha and gas oil.
[5] Estimate.
[6] U.S.S.R. in Asia (including Sakhalin) included with U.S.S.R. in Europe.
[7] Including Sahara.
[8] Revised figure differing from that shown in table 90.

Compiled by Pearl J. Thompson, Division of Foreign Activities.

TABLE 90.—World supply and demand of crude petroleum and refined products, 1959–60

(Thousands of barrels)

Country	1959								
	Crude Petroleum					Refined Products			
	Production	Imports	Exports and reexports	Stock chang other demand, and loss	Total [1] refinery input / Total [2] refinery output	Imports	Exports and reexports	Domestic demand (incl. bunkers) [3]	Bunkers all flags reported)
North America:									
Canada	184,778	115,289	33,362	+236	269,824	38,880	1,457	[4] 295,633	6,679
Mexico	96,393	73	112	−1,016	104,932	4,665	13,348	96,249	
United States (incl. Alaska)	2,574,590	352,531	2,526	+6,747	3,070,984	297,239	85,049	[4] 3,439,175	81,541
Total	2,855,761	467,893	36,000	+5,967	3,445,740	340,784	99,854	3,831,057	
Central America and Caribbean:									
Costa Rica						1,051		1,051	
Cuba	192	25,402		−470	26,064	[5] 4,398		30,462	
Dominican Republic						2,602		2,602	
El Salvador						1,472		1,472	
Guatemala						3,303		3,303	
Haiti						754		754	
Honduras						1,472		1,472	
Jamaica						5,349		5,349	1,105
Nicaragua						[5] 1,261		1,261	
Panama, Canal Zone						7,209	1,972	5,237	4,525
Panama, Republic of						2,584	5	2,579	
Puerto Rico		25,662		−520	27,331	4,578	14,631	17,278	
Total	192	51,064		−990	53,395	36,033	16,608	72,820	
South America:									
Argentina	44,710	37,957		+3,657	79,033	18,849	9	[4] 86,510	
Bolivia	3,170		948	+11	2,211	113	8	[4] 2,058	
Brazil	23,590	40,666	10,734	−2,626	56,148	28,030	299	[4] 86,130	
British Guiana						1,278	1	1,277	7
Chile	6,428	2,769		+619	8,677	[5] 7,140		[4] 16,799	
Colombia	53,576		28,522	+846	24,931	736	4,176	[4] 18,236	1,387
Ecuador	2,759	250	283	−108	2,834	935		3,769	
Netherlands Antilles		266,129		+8,526	272,010	27,327	221,655	[6] 77,682	22,035
Paraguay						727		[4] 640	

Peru	17,733		2,110	+112	15,664	2,556	2,797	15,423	340
Trinidad	40,919	30,798	3,253	−164	69,115	1,360	54,972	[4] [6] 16,632	13,453
Uruguay		8,300		−54	8,354	2,722		11,076	952
Venezuela	1,011,452		719,835	−5,281	298,991	[5] 570	200,602	[4] 48,602	17,821
Total	1,204,337	386,869	765,685	+5,538	837,968	92,343	484,519	384,834	
Western Europe:									
Austria	16,946	3,299	6,974	+138	13,681	6,806	1,334	[4] 17,974	
Belgium and Luxembourg		49,387		+421	49,381	19,775	18,685	[4] 47,791	1,329
Denmark		269		+47	222	34,089	110	34,201	1,881
Finland		7,972		+88	7,884	6,005		13,889	
France	11,594	221,647		+7,435	226,041	14,300	48,386	[4] 181,110	11,541
Germany, West	36,981	122,693		−1,008	160,682	38,453	12,549	[4] 195,109	12,830
Greece		10,079		+77	10,002	2,947		12,949	
Iceland						2,878		2,878	
Ireland		5,772		+606	5,166	6,090	728	[4] 8,790	
Italy	11,551	181,058	3,244	−1,777	191,929	5,645	49,295	[4] 121,635	11,802
Netherlands	12,367	91,967		+1,293	115,044	36,000	66,854	[4] 68,778	7,392
Norway		735		+42	693	23,435		[4] 23,414	2,198
Portugal		9,343		−635	9,978	2,515	2,134	[4] 8,311	738
Spain		30,214		+686	30,265	1,446	346	[4] 32,214	1,662
Sweden		17,255		−440	17,695	62,069	794	[4] 75,798	[5] 2,956
Switzerland						22,690	1	22,698	
United Kingdom	621	283,891		+629	283,883	102,537	52,492	[4] 327,003	29,918
Yugoslavia	4,188	4,548		+65	8,671	916	478	9,109	
Total	94,248	1,040,129	10,218	+7,667	1,131,217	388,605	254,186	1,203,651	
Middle East:									
Aden		30,781		+68	30,713	10,639	15,630	[6] 25,722	25,258
Bahrain	16,473	52,659		+174	69,144	449	60,351	[6] 9,242	4,511
Iran	344,800		212,860	−3,574	135,514		77,270	[4] 39,712	5,388
Iraq	311,193		292,354	+6,299	12,540	[5] 50		12,590	
Israel	925	[5] 8,555			9,480	[5] 11,090		20,570	[5] 372
Jordan						1,426		1,426	
Kuwait	504,855		452,064	+775	52,016	197	27,708	[6] 24,505	18,551
Lebanon		5,493			5,493	[5] 319		5,812	1,758
Neutral Zone	42,438		[5] 32,500	−992	[5] 10,930		[5] 7,350	3,580	[5] 1,000
Qatar	61,431		61,237		[5] 194			194	
Saudi Arabia	399,821		334,848	+1,363	63,610	122	43,698	[4] [6] 14,970	[5] 11,793
Turkey	2,700			+162	2,538	12,016		14,554	
United Arab Republic, Syria		[5] 1,830			[5] 1,830	3,596		5,426	
Total	1,684,636	99,318	1,385,863	+4,275	394,002	39,904	232,007	178,303	

See footnotes at end of table.

TABLE 90.—World supply and demand of crude petroleum and refined products, 1959–60—Continued

Country	1959								
	Crude Petroleum					Refined Products			
	Production	Imports	Exports and reexports	Stock change, other demand, and loss	Total [1] refinery input / Total [2] refinery output	Imports	Exports and reexports	Domestic demand (incl. bunkers) [3]	Bunkers all flags (as reported)
Africa:									
Algeria and French Sahara	10,205		6,455	+3,750		10,380		[4] 14,073	3,771
Angola	361	129		+7	483	939		[4] 1,377	
Belgian Congo						3,579		3,579	
Canary Islands		22,398		+1,571	23,580	1,195	15,330	9,445	5,411
Ethiopia						[5] 696		696	
States formerly in French Equatorial Africa	5,295		5,170	+125		[5] 2,182		2,182	
French West Africa						[5] 4,091		4,091	7,921
Ghana						2,834		2,834	
Kenya						5,916	134	5,782	902
Liberia						386		386	
Madagascar						986		986	
Morocco	712	687		+172	1,227	4,641		[4] 5,733	503
Nigeria	4,067		4,067			5,637		5,637	
Rhodesia and Nyasaland						[5] 3,964		[4] 4,074	
Sierra Leone						2,064	3	2,061	1,521
Sudan						3,153		3,153	
Tanganyika						2,344	437	1,907	13
Tunisia						3,241		[4] 3,399	171
Uganda						1,183	165	1,018	
Union of South Africa		9,632		+56	9,576	19,814	1,581	27,809	3,092
United Arab Republic, Egypt	21,303	11,336	7,483	+56	[5] 25,100	7,480	1,474	31,106	2,302
Total	41,943	44,182	23,175	+5,737	59,966	86,705	19,124	131,328	
South Asia, Far East, and Oceania:									
Australia		73,545		−460	75,733	11,994	7,352	[4] 78,477	7,034
British Borneo	40,072		24,696		[5] 15,376	844	14,937	1,283	1,066
Burma	3,967			+444	3,523	[5] 594		4,117	[5] 200
Ceylon						7,191	4	7,187	2,982
India	3,377	36,037		+2,338	[5] 37,076	13,482	2,067	48,491	[5] 2,880

Indonesia	139,038	[5] 11,435	61,661	+6,014	[5] 88,019	1,908	41,908	[4] 31,607	5,540
Japan	2,852	139,080		−1,236	143,168	23,061	2,681	163,548	16,244
Korea, South						[5] 10,953		10,953	
Malaya and Singapore		2,139	1,910	+229		41,601	17,474	24,127	12,283
Netherlands New Guinea	1,656		[5] 1,656					(7)	
New Caledonia						377		377	
New Zealand						12,462		12,462	1,557
Pakistan	2,333			+51	2,282	[5] 7,924	175	[4] 14,827	
Philippines		8,662		−280	8,942	10,305		19,247	132
Taiwan	13	7,235		+785	6,463	4,634	58	11,039	
Thailand						8,242	232	8,010	402
Vietnam, South (incl. Cambodia)						5,534		5,534	35
Total	193,308	278,133	89,923	+7,885	380,582	161,106	86,888	441,286	
Total excluding Eastern Europe, U.S.S.R., and Mainland China	6,074,425	2,367,588	2,310,864	+36,079	6,302,870	1,145,480	1,193,186	6,243,279	
Total Sino-Soviet bloc [8]	1,058,813	7,388	47,698	−1,358	1,019,861	37	69,350	950,548	
Total World	7,133,238	2,374,976	2,358,562	+34,721	7,322,731	1,145,517	1,262,536	7,193,827	

See footnotes at end of table.

TABLE 90.—World supply and demand of crude petroleum and refined products, 1959–60—Continued

Country	1960 [8]								
	Crude Petroleum					Refined Products			
	Production	Imports	Exports and reexports	Stock change, other demand, and loss	Total [1] refinery input / Total [2] refinery output	Imports	Exports and reexports	Domestic demand (incl. bunkers) [3]	Bunkers all flags (as reported)
North America:									
Canada	191,842	125,560	42,235	−2,207	280,559	35,298	2,295	[4] 306,614	[5] 6,570
Mexico	99,049		1,103	−1,950	107,278	7,895	6,447	108,726	
United States (incl. Alaska and Hawaii)	2,574,933	371,575	3,091	−9,117	3,119,327	294,098	70,798	[4] 3,541,758	78,859
Total	2,865,824	497,135	46,429	−13,274	3,507,164	337,291	79,540	3,957,098	
Central America and Caribbean:									
Costa Rica						[5] 1,034		1,034	
Cuba	[5] 108	[5] 22,552		−374	[5] 23,034	[5] 4,548		27,582	
Dominican Republic						[5] 2,835		2,835	
El Salvador						[5] 1,588		1,588	
Guatemala						[5] 2,921		2,921	
Haiti						[5] 620		620	
Honduras						1,495		1,495	
Jamaica						5,423		5,423	1,203
Nicaragua						[5] 1,418		1,418	
Panama, Canal Zone						8,045	1,994	6,051	5,448
Panama, Republic of						[5] 2,774		2,774	
Puerto Rico		26,469		+158	29,140	5,665	13,485	21,320	
Total	108	49,021		−216	52,174	38,366	15,479	75,061	
South America:									
Argentina	64,232	22,982		+1,511	85,703	13,835	11	[4] 89,007	1,445
Bolivia	3,574		1,088	+225	2,261	122	44	[4] 2,219	
Brazil	29,613	40,139	4,297	−1,028	66,483	[5] 30,084		96,567	
British Guiana						1,672		1,672	
Chile	7,231	3,584		−49	10,864	[5] 5,437		[4] 17,540	
Colombia	55,666		31,661	−845	26,562	1,030	4,096	[4] 20,153	1,200
Ecuador	2,730	1,459		−55	4,244	248		4,492	
Netherlands Antilles		261,023	1,783	−368	279,253	17,360	234,905	[6] 61,708	22,088
Paraguay						811		[4] 673	

Peru	19,255		2,591	+122	16,748	4,076	3,055	17,769	262
Trinidad	42,357	40,218	5,071	−4,396	82,341	1,565	63,190	[3] 17,373	13,823
Uruguay		9,267		−222	9,489	1,782		11,271	1,825
Venezuela	1,041,708		730,962	−12,180	330.105	543	251,782	[4] 55,593	17,165
Total	1,266,366	378,672	777,453	−17,285	914,053	78,565	557,083	397,037	
Western Europe:									
Austria	16,874	3,852	6,908	+178	14,171	8,676	1,095	[4] 20,890	
Belgium and Luxembourg		50,493		−1,183	52,217	24,507	19,687	[4] 50,235	4,319
Denmark		38		−158	[5] 196	38,669	127	38,738	1,701
Finland		8,391		+641	[5] 7,750	11,715	3	19,462	
France	14,229	230,416	6	−127	244,973	16,663	52,819	[4] 204,143	11,725
Germany, West	40,076	169,702		+5,168	204,610	27,044	20,238	[4] 229,061	15,929
Greece		12,752		−52	12,804	4,567		17,371	
Iceland						2,795		2,795	
Ireland		10,671		−228	10,899	3,388	809	13,478	
Italy	13,545	216,977	3,529	+1,119	236,513	12,551	50,284	[4] 164,564	17,310
Netherlands	13,378	120,658	60	−3,543	149,653	37,214	85,186	101,681	9,700
Norway		1,513		+632	[5] 881	25,940		26,821	
Portugal		9,654	−559		10.213	4,333	1,851	12,695	2,998
Spain		29,984		+78	30,705	2,468	1,415	[4] 33.971	[5] 2,043
Sweden		19,176		−1,034	20,210	77,679	967	96,922	[7] 2,956
Switzerland						28,439	32	28,407	
United Kingdom	649	320,774		+149	321,274	112,921	68,453	[4] 344,238	28,119
Yugoslavia	6,671	[5] 3,970		+1,138	9,503	[5] 1,620	[5] 695	10,428	
Total	105,422	1,209,021	9,944	+2,778	1,326,572	441,189	303,661	1,415,900	
Middle East:									
Aden		31,332		+308	31,024	12,385	16,955	[6] 26,454	26,436
Bahrain	16,500	59,599		+169	76,131	505	66,238	[6] 10,398	4,410
Iran	390,754		246,286	+2,379	[5] 142,089		93,401	[4] 45,960	[5] 6,216
Iraq	353,833		[5] 337,705	+930	[5] 15,198	[5] 13		15,211	
Israel	930	[5] 9,795			10,725	[5] 10,776	121	21,380	[5] 360
Jordan		[5] 132			[5] 132	[5] 1,277		1,409	
Kuwait	594,278		527,299	+2,036	64,943	10	32,308	[6] 32,645	22,719
Lebanon		5,422			5,422	[5] 361		[4] 6,488	1,868
Neutral Zone	49,829		[5] 39,241	−1,262	[5] 11,850	[5] 33	[5] 6,100	5,783	[5] 2,900
Qatar	63,088		62,424	+448	[5] 216			[4] 367	
Saudi Arabia	456,453		372,929	+1,212	82,312	86	57,593	[4 6] 24,900	12,720
Turkey	2,624			+198	[5] 2,426	9,652		12,078	
U.A.R., Syria		5,176		+95	5,081	1,297		6,378	
Total	1,928,289	111,456	1,585,884	6,513	447,549	36,395	272,716	209,411	

See footnotes at end of table.

TABLE 90.—World supply and demand of crude petroleum and refined products, 1959–60—Continued

Country	1960 [6]								
	Crude Petroleum					Refined Products			
	Production	Imports	Exports and reexports	Stock change, other demand, and loss	Total [1] refinery input / Total [2] refinery output	Imports	Exports and reexports	Domestic demand (incl bunkers) [3]	Bunkers all flags (as reported)
Africa:									
Algeria and French Sahara	67,408		63,438	+3,970		10,518		10,518	[5] 3,771
Angola	477	868		+33	1,312	761	306	1,767	
Republic of the Congo						[5] 3,318		3,318	
Canary Islands		21,577		+13	28,950	1,076	16,446	13,580	5,183
Ethiopia						[5] 935		935	
States formerly in French Equatorial Africa	5,991		5,843	+148		[5] 2,136		2,136	
States formerly in French West Africa						[5] 4,091		4,091	[5] 7,920
Ghana						[5] 3,562		3,562	
Kenya						[5] 6,156	[5] 995	5,161	[5] 907
Liberia						[5] 386		386	[5] 40
Malagasy Republic						960		960	
Morocco	695	992		+54	1,633	4,680		[4] 6,675	[5] 530
Nigeria	6,552		6,226	+326		5,813		5,813	
Federation of Rhodesia and Nyasaland						[5] 4,118		4,118	
Sierra Leone						2,268		2,268	[5] 1,521
The Sudan						3,320		3,320	
Tanganyika						2,435	398	2,037	
Tunisia						3,724		[4] 3,565	
Uganda						1,201	204	997	
Union of South Africa		9,716		+507	9,209	19,922	2,289	26,842	[5] 3,720
United Arabic Republic, Egypt	23,968	15,382	[5] 4,124	+3,891	31,335	7,892	1,245	37,982	178
Total	105,091	48,535	79,631	8,942	72,439	89,272	21,883	140,031	
South Asia, Far East, and Oceania:									
Australia		85,131		+1,159	86,630	11,610	12,815	[4] 80,632	9,422
British Borneo	34,005		18,882		[5] 15,123	[5] 951	[5] 14,889	1,185	[5] 1,000
Burma	4,078			+199	3,879	205	71	4,013	
Ceylon						4,575	6	4,569	3,203
India	3,370	[5] 43,160		+1,740	[5] 44,790	[5] 17,017	[5] 1,983	59,824	[5] 3,400

Indonesia	152,988	9,556	80,528	+2,365	[5] 86,756	[5] 3,852	[5] 38,654	[4] 35,274	
Japan	3,678	195,748		−2,794	207,883	38,323	3,846	242,360	26,771
Korea, South						4,969		4,969	
Malaya and Singapore		[5] 2,310	[5] 1,927	+383		[5] 44,773	[5] 18,863	25,910	[5] 13,170
Netherlands New Guinea	1,538		1,538			(7)		(7)	
New Caledonia						[5] 408		408	
New Zealand						13,346		13,346	[5] 1,557
Pakistan	2,636			+252	2,384	[5] 11,456	[5] 252	13,588	
Philippines		10,474		+383	10,091	10,049		20,140	167
Taiwan	14	7,949		+276	7,687	139	104	7,722	
Thailand						8,490		8,490	418
Vietnam, South (incl. Cambodia)						6,123		6,123	74
Total	202,307	354,328	102,875	+3,963	465,223	176,286	91,483	528,553	
Total excluding Eastern Europe, U.S.S.R., and Mainland China	6,473,407	2,648,168	2,602,216	−8,579	6,785,174	1,197,364	1,341,845	6,723,091	
Total Soviet-Sino bloc [8]	1,210,340	7,300	60,590	+14,951	1,142,099	44	90,520	1,051,623	
Total World	7,683,747	2,655,468	2,662,806	+6,372	7,927,273	1,197,408	1,432,365	7,774,714	

[1] Total input includes crude runs to stills plus runs of other unfinished oils, topped crude and natural gas liquids blended.

[2] Total output includes refined product output plus refinery fuel and loss; excludes liquefied petroleum gases sold directly for fuel and chemical uses from natural gasoline plants.

[3] Unless otherwise specified, data represent apparent domestic demand (including inland demand, refinery fuel and loss, and bunkers). Apparent domestic demand is derived from the components of refined product output, plus imports, minus exports, with no allowance for changes in stocks.

[4] Domestic demand as reported, including refinery fuel and loss, stock changes, and bunkers; also includes, where available, liquefied petroleum gases sold directly for fuel and chemical uses from natural gasoline plants.

[5] Estimate based on latest available data.

[6] Apparent domestic demand is heavily influenced by refinery fuel and loss, and bunker loadings.

[7] Insignificant.

[8] Preliminary.

NATIVE ASPHALT

Bituminous Limestone and Sandstone.—Production of bituminous limestone declined 273.6 thousand short tons in 1960 to 1,235.7 tons, and the average value per ton declined 8 cents from a year ago ($2.44 in 1960 compared with $2.52 in 1959). Bituminous limestone was produced in Alabama, Oklahoma, and Texas.

Bituminous sandstone was produced only in Missouri, and total production for 1960 was 7.2 thousand short tons; value averaged $8.45 per ton.

Gilsonite.—All gilsonite production was in Utah and the major part of this production was transported by pipeline to a refinery in Colorado where it was converted into petroleum products. Production in 1960 totaled 383 thousand tons.

TABLE 91.—Production and value of bituminous limestone, bituminous sandstone, and gilsonite, in the United States

Year	Bituminous limestone		Bituminous sandstone		Gilsonite	
	Production (short tons)	Value (thousands)	Production (short tons)	Value (thousands)	Production (short tons)	Value (thousands)
1950	1,184,676	$3,522	(1)	(1)	66,186	$1,774
1951	1,378,434	4,159	(1)	(1)	65,521	1,895
1952	1,428,562	3,560	142,136	$1,127	60,740	1,780
1953	1,327,224	3,408	113,320	942	60,505	2,184
1954	1,191,793	2,782	146,029	905	75,943	2,724
1955	1,330,311	3,274	96,896	837	82,822	3,117
1956	1,358,669	3,223	99,864	891	89,003	3,822
1957	1,134,781	2,996	33,726	225	207,704	4,259
1958	1,305,555	3,218	20,938	125	317,280	4,864
1959	1,509,277	3,810	9,488	58	379,362	9,385
1960	1,235,658	3,009	7,216	61	383,037	10,020

[1] Included with bituminous limestone.