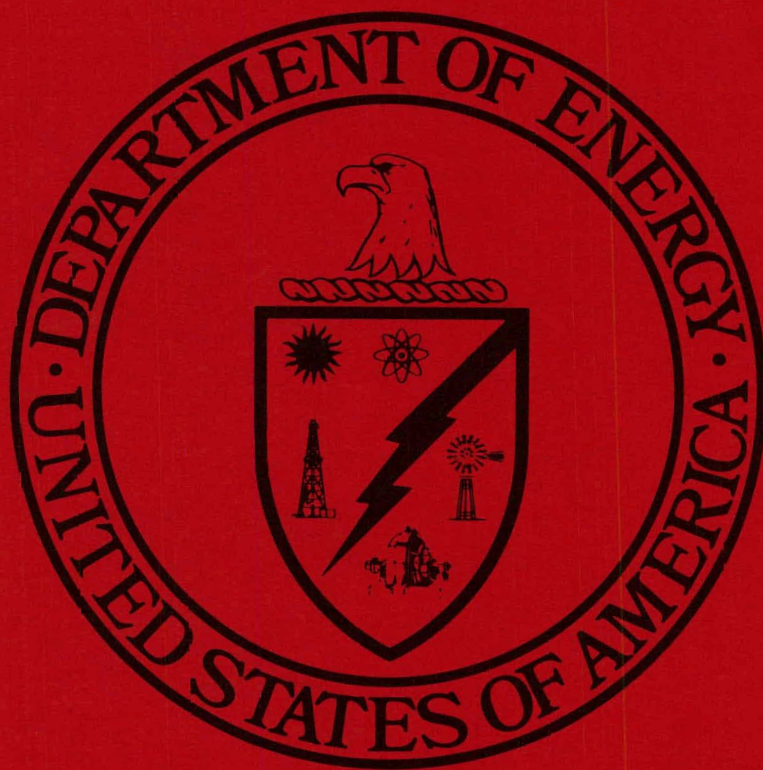


International Energy Indicator



U.S. Department of Energy

June 1980

International Affairs

Including Special Annual Section

Office of Current Reporting

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International Energy Indicators

June 1980

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**SPECIAL ANNUAL
SECTION**

World Crude Oil Production by Area, 1947—

20

In 1947, total world crude oil production was only slightly less than the U.S. alone in 1978. Between 1962 and 1963, the Middle East and Africa passed the U.S., and the total Western Hemisphere between 1968 and 1969. These three areas produced about 69% of the world's oil in 1979.

Estimated Proved World Reserves of Crude Oil

22

Reserve estimates for the Western Hemisphere have nearly tripled since 1948, with the largest increase showing in Mexico. The pattern for the Middle East and Total World is almost parallel, with the Middle East having about 56% of the world's reserves in 1980.

World Marketed Production of Natural Gas, 1950—

24

For most of this period, the U.S. and Canada marketed the largest portion of the world's natural gas. Other countries, particularly those of the Communist Bloc and the Middle East and Africa, are joining the trade as the value of gas becomes better recognized.

Estimated Proved World Reserves of Natural Gas, 1967—

26

Measurements of reserves began relatively late, but show a steady expansion for the world, except for 1975-1977. The Western Hemisphere reserves are remarkably flat for the entire period, while the Middle East has tripled its reserves in the 14 years shown.

U.S. Trade in Natural Gas, 1955—

28

Most of the gas imported by the U.S. comes by pipeline from Canada. A small amount of LNG is starting to come from Algeria. Small amounts of LNG have been exported to Japan from Kenai, Alaska, since 1969.

UNITED STATES

U.S. Imports of Crude Oil and Products, 1973—

30

In May, total U.S. imports dropped to 6.5 MMBD. The 12-month moving average, based on adjusted figures, was down to 7.7 MMBD.

Landed Cost of Saudi Crude Oil in Current and 1974 Dollars

32

According to data derived from information provided to DOE, preliminary figures show that the landed cost of Saudi Light crude stood at \$27.78, another new high, in March. In 1974 dollars, the real difference between April 1974 and March 1980 showed an increase of \$5.21. March was a new peak in the real price.

U.S. Trade in Coal, 1973—

34

In April, exports rose sharply to 7.4 million short tons of bituminous coal, while imports dropped to 63,000 short tons. The 12-month moving average for exports was 5.8 million short tons in April.

Summary of U.S. Merchandise Trade, 1976—

36

The deficit dropped in April to \$1.87 billion, compared to \$3.16 billion in March. Manufactured goods showed a surplus of \$2.1 billion, and agriculture's surplus was \$2.04 billion. The deficit in energy dropped more than a billion dollars to \$6.04 from \$7.1 billion in March.

Energy/GNP Ratio—

38

First quarter 1979 preliminary figures follow the normal seasonal pattern. The moving average dropped to 53.0. NOTE: Annual figures from 1973 on and quarterly figures for 1978 and 1979 have been revised to conform to those shown in the Monthly Energy Review for June.

Iran: Crude Oil Capacity, Production and Shut-In, 1974 -
(In Thousands of Barrels per Day)

Date	Capacity	Production	Shut-in	Date	Capacity	Production	Shut-in	Date	Capacity	Production	Shut-in
1974		6,020		1977		5,665		1980			
June	6,500	6,040	460	January	6,700	5,060	1,640	January	4,000	2,300	1,700
July	6,500	6,040	460	February	6,700	6,050	650	February	4,000	2,500	1,500
August	6,500	5,950	550	March	6,700	6,280	420	March	4,000	2,400	1,600
September	6,800	5,850	950	April	6,700	5,410	1,290	April	3,500	2,000	1,500
October	6,800	5,710	1,090	May	6,700	5,740	960	May	3,500	1,300	2,200
November	6,500	6,030	470	June	6,700	5,100	1,600				
December	6,500	5,820	680	July	6,700	4,710	1,990				
				August	6,700	5,660	1,040				
1975		5,350		September	6,700	5,970	730				
January	6,500	5,540	960	October	6,000	5,570	430				
February	6,500	5,900	600	November	6,500*	6,090	410				
March	6,500	5,510	990	December	6,500*	6,390	110				
April	6,500	5,460	1,040								
May	6,500	5,090	1,410	1978		5,200					
June	6,500	5,130	1,370	January	6,500	5,290	1,210				
July	6,500	5,440	1,060	February	6,500	5,530	970				
August	6,500	5,510	990	March	6,500	5,600	900				
September	6,800	6,100	700	April	6,500	5,610	890				
October	6,800	4,730	2,070	May	6,500	5,720	780				
November	6,800	5,000	1,800	June	6,500	5,630	870				
December	6,800	4,860	1,940	July	6,500	5,800	700				
				August	6,500	5,810	690				
1976		5,885		September	6,500	6,050	450				
January	6,500	4,940	1,560	October	6,600	5,490	1,110				
February	6,500	5,020	1,480	November	6,600	3,390	3,210				
March	6,500	5,740	760	December	6,600	2,370	4,230				
April	6,500	5,500	1,000								
May	6,500	5,600	900	1979							
June	6,500	6,100	400	January	6,600	405	6,195				
July	6,500	5,570	930	February	6,600	760	5,840				
August	6,500	5,820	680	March	5,500 **	2,185	3,315				
September	6,600	6,470	130	April	5,500 **	3,800	1,700				
October	6,600	6,510	90	May	5,500 **	4,100	1,400				
November	6,700	6,680	20	June	5,500 **	3,950	1,550				
December	6,700	6,630	70	July	5,000	3,750	1,250				
				August	5,000	3,600	1,400				
				September	4,500	3,600	900				
				October	4,500	3,900	600				
				November	4,500	3,200	1,300				
				December	4,000	2,900	1,100				

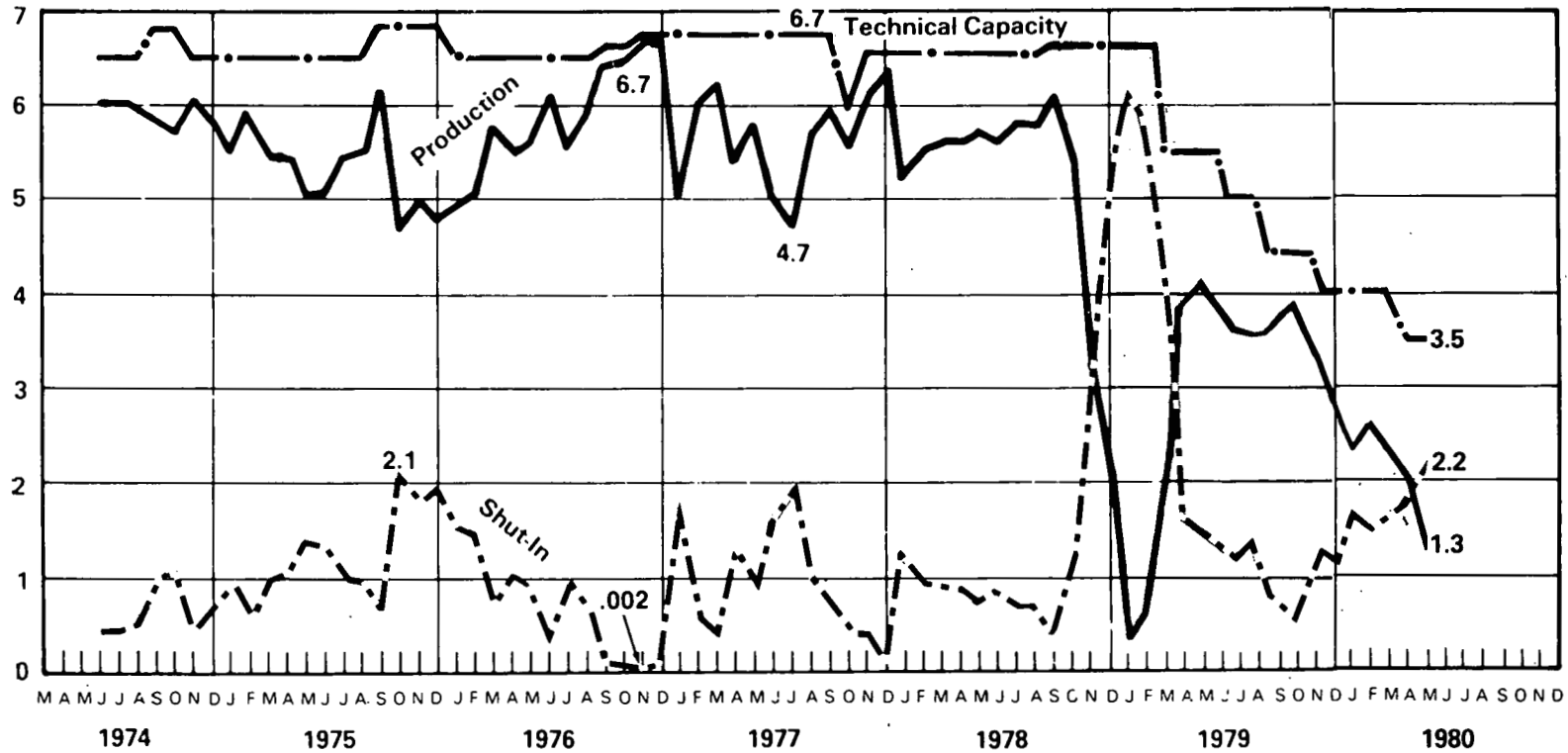
*Adjusted

**Capacity figure provided by National Iranian Oil Co.

Production and capacity figures: estimates by DOE/IA since July 1979.

Iran—Capacity, Production and Shut-In, 1974 - **(In Millions of Barrels a Day)**

MMBD



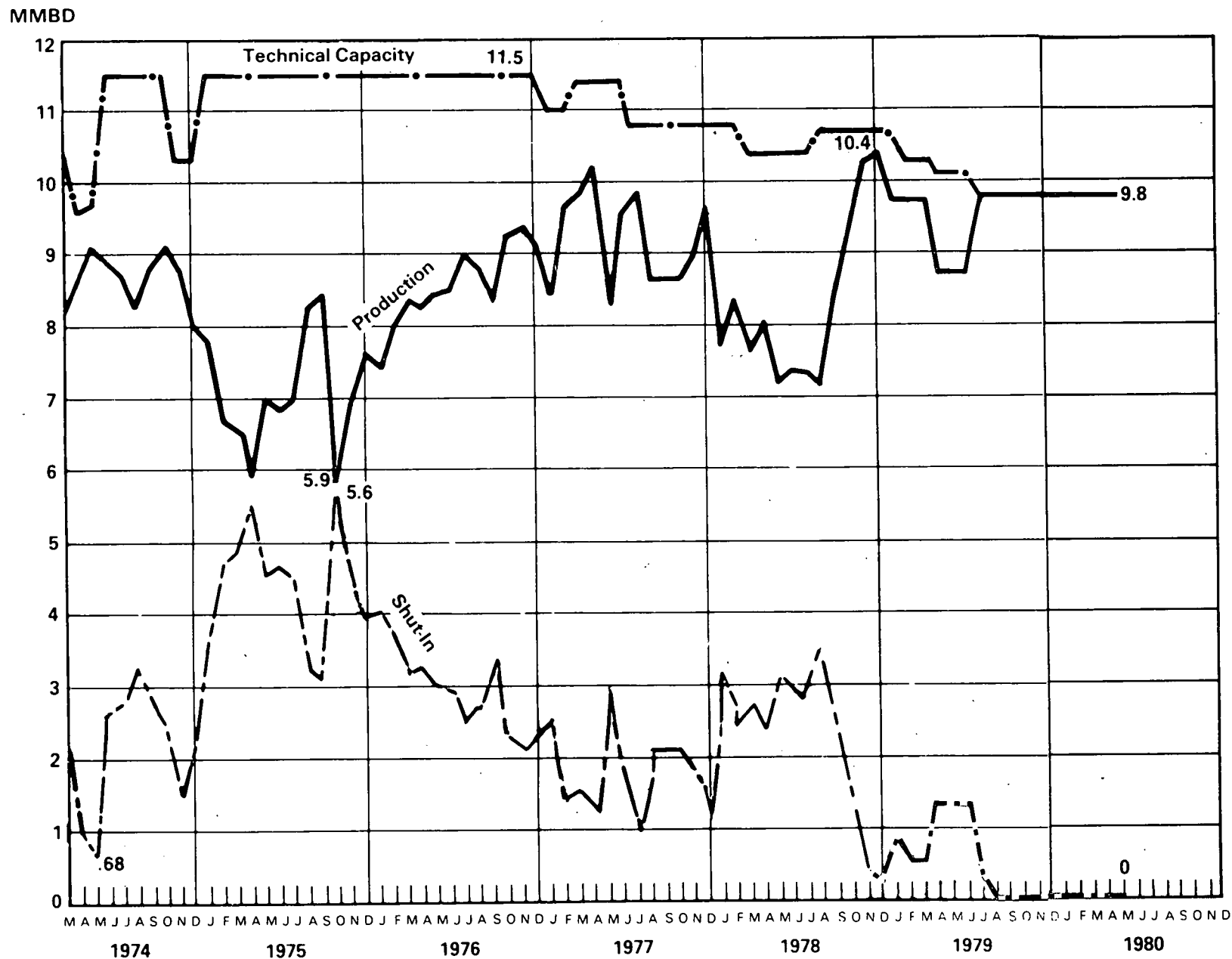
Source: CIA, Energy Branch

Saudi Arabia: Crude Oil Capacity, Production and Shut-In, 1974 -
(In Thousands of Barrels per Day)

Date	Capacity	Production	Shut-in	Date	Capacity	Production	Shut-in	Date	Capacity	Production	Shut-in
1974		8,480		1977		9,200		1980			
March	10,600	8,130	2,470	January	11,000	8,490	2,510	January	9,800	9,800*	0
April	9,600	8,650	950	February	11,000	9,620	1,380	February	9,800	9,800*	0
May	9,700	9,020	680	March	11,400	9,840	1,560	March	9,800	9,800*	0
June	11,500	8,890	2,610	April	11,400	10,200	1,200	April	9,800	9,800*	0
July	11,500	8,790	2,710	May	11,400	8,460	2,940	May	9,800	9,800*	0
August	11,500	8,280	3,220	June	11,400	9,560	1,840				
September	11,500	8,770	2,730	July	10,800	9,800	1,000				
October	11,500	9,050	2,450	August	10,800	8,630	2,170				
November	10,300	8,810	1,490	September	10,800	8,650	2,150				
December	10,300	8,060	2,240	October	10,800	8,650	2,150				
				November	10,800	8,930	1,870				
				December	10,800	9,620	1,180				
1975		7,075		1978		8,295					
January	11,500	7,850	3,650	January	10,800	7,790	3,010				
February	11,500	6,750	4,750	February	10,800	8,380	2,420				
March	11,500	6,550	4,950	March	10,400	7,690	2,710				
April	11,500	5,920	5,580	April	10,400	8,050	2,350				
May	11,500	6,990	4,510	May	10,400	7,250	3,150				
June	11,500	6,820	4,680	June	10,400	7,480	2,920				
July	11,500	6,980	4,520	July	10,400	7,410	2,990				
August	11,500	8,210	3,290	August	10,700	7,150	3,550				
September	11,500	8,410	3,090	September	10,700	8,410	2,290				
October	11,500	5,870	5,630	October	10,700	9,310	1,390				
November	11,500	6,950	4,550	November	10,700	10,250	450				
December	11,500	7,590	3,910	December	10,700	10,400	300				
1976		8,575		1979		9,549*					
January	11,500	7,470	4,030	January	10,700	9,800	900				
February	11,500	7,940	3,560	February	10,300	9,800	500				
March	11,500	8,370	3,130	March	10,300	9,800	500				
April	11,500	8,270	3,230	April	10,100	8,790	1,310				
May	11,500	8,450	3,050	May	10,100	8,800	1,300				
June	11,500	8,520	2,980	June	10,100	8,800	1,300				
July	11,500	8,980	2,520	July	10,100	9,800	300				
August	11,500	8,760	2,740	August	9,800	9,800	0				
September	11,500	8,320	3,180	September	9,800	9,800	0				
October	11,500	9,250	2,250	October	9,800	9,800	0				
November	11,500	9,400	2,100	November	9,800	9,800	0				
December	11,500	9,170	2,330	December	9,800	9,800	0				

NOTE: Includes Neutral Zone production.
Does not include natural gas liquids.

Saudi Arabia—Capacity, Production and Shut-In, 1974 - **(In Millions of Barrels a Day)**



Source: CIA, Energy Branch

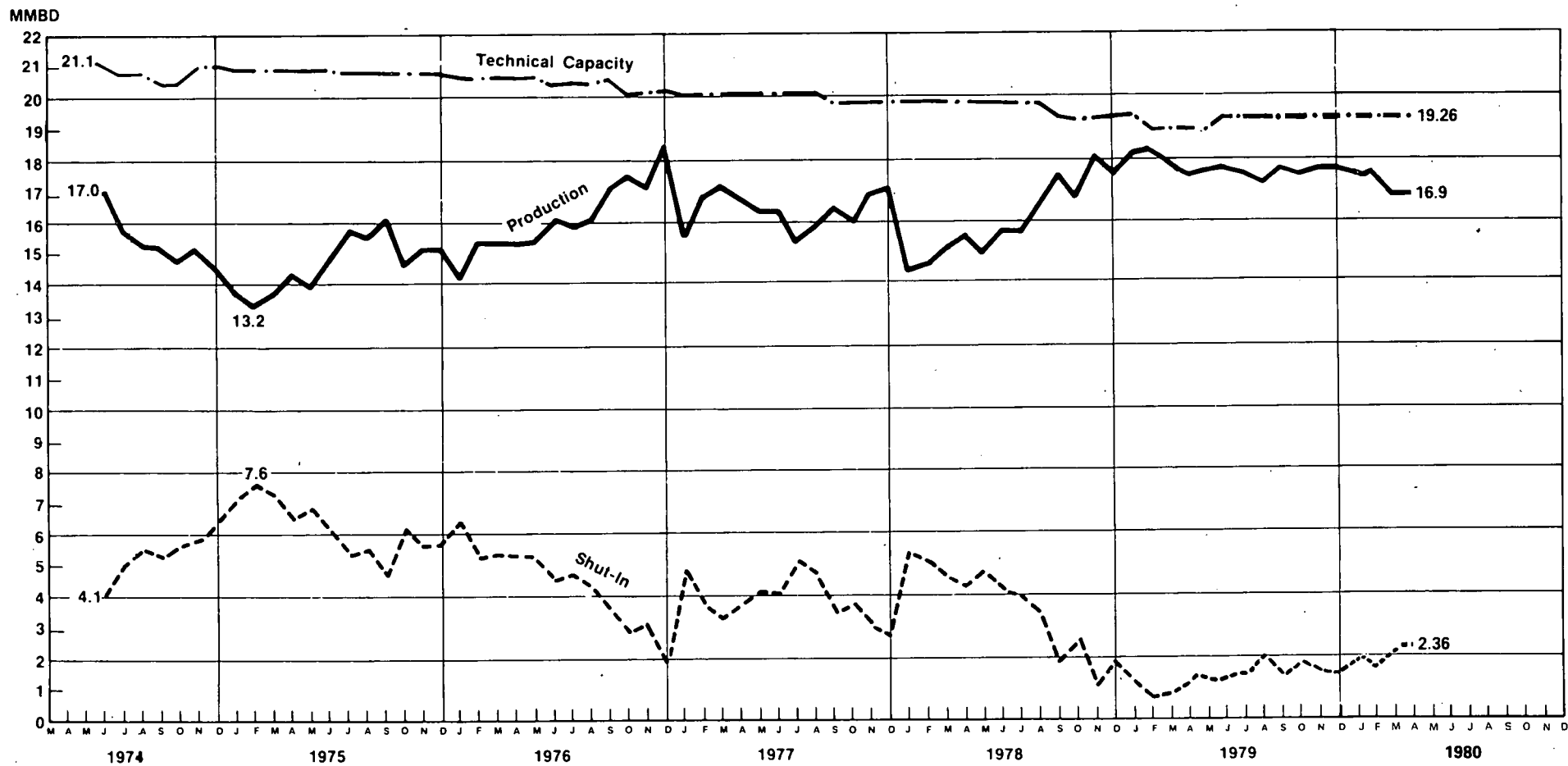
OPEC (Ex-Iran and Saudi Arabia): Capacity, Production and Shut-In, 1974 – (In Thousands of Barrels a Day)

Date	Capacity	Production	Shut-in	Date	Capacity	Production	Shut-in	Date	Capacity	Production	Shut-in
1974		16,175		1977		16,295		1980			
June	21,090	16,980	4,110	January	20,335	15,530	4,805	January*	19,260	17,285	1,975
July	20,740	15,670	5,070	February	20,335	16,630	3,705	February*	19,260	17,452*	1,808
August	20,740	15,210	5,530	March	20,345	17,060	3,285	March*	19,260	16,899	2,361
September	20,490	15,150	5,340	April	20,345	16,650	3,695	April*	19,260	16,900	2,360
October	20,490	14,720	5,770	May	20,345	16,230	4,115				
November	21,040	15,170	5,870	June	20,345	16,290	4,055				
December	21,040	14,507	6,533	July	20,345	15,320	5,025				
				August	20,345	15,740	4,605				
1975		14,710		September	19,745	16,340	3,405				
January	20,840	13,780	7,060	October	19,645	15,980	3,665				
February	20,840	13,280	7,560	November	19,695	16,740	2,955				
March	20,840	13,630	7,210	December	19,695	16,910	2,785				
April	20,840	14,340	6,500								
May	20,840	13,990	6,850	1978		16,120					
June	20,840	14,720	6,120	January	19,645	14,320	5,325				
July	20,990	15,680	5,310	February	19,645	14,590	5,055				
August	20,990	15,450	5,540	March	19,645	15,080	4,565				
September	20,740	16,080	4,660	April	19,705	15,475	4,230				
October	20,740	14,570	6,170	May	19,705	14,930	4,775				
November	20,740	15,110	5,630	June	19,705	15,570	4,135				
December	20,740	15,100	5,640	July	19,705	15,750	3,955				
				August	19,705	16,325	3,380				
1976		16,195		September	19,280	17,350	1,930				
January	20,590	14,200	6,390	October	19,200	16,700	2,500				
February	20,590	15,330	5,260	November	19,200	17,870	1,330				
March	20,610	15,270	5,340	December	19,360	17,540	1,820				
April	20,610	15,310	5,300								
May	20,610	15,360	5,250	1979		17,760					
June	20,430	15,960	4,470	January	19,360	18,115	1,245				
July	20,430	15,800	4,630	February	18,960	18,270	690				
August	20,430	16,060	4,370	March	18,960	18,000	960				
September	20,535	17,040	3,495	April	18,960	17,550	1,430				
October	20,155	17,360	2,795	May	18,960	17,760	1,200				
November	20,155	17,060	3,095	June	18,960	17,740	1,220				
December	20,180	18,260	1,920	July	19,260	17,595	1,665				
				August	19,260	17,150	2,110				
				September	19,260	17,650	1,610				
				October	19,260	17,315	1,945				
				November	19,260	17,685	1,575				
				December	19,260	17,660	1,600				

Source: CIA, International Energy Statistical Review

* Estimate

OPEC (Ex-Iran and Saudi Arabia) Capacity, Production and Shut-In, 1974-
(In Millions of Barrels per Day)

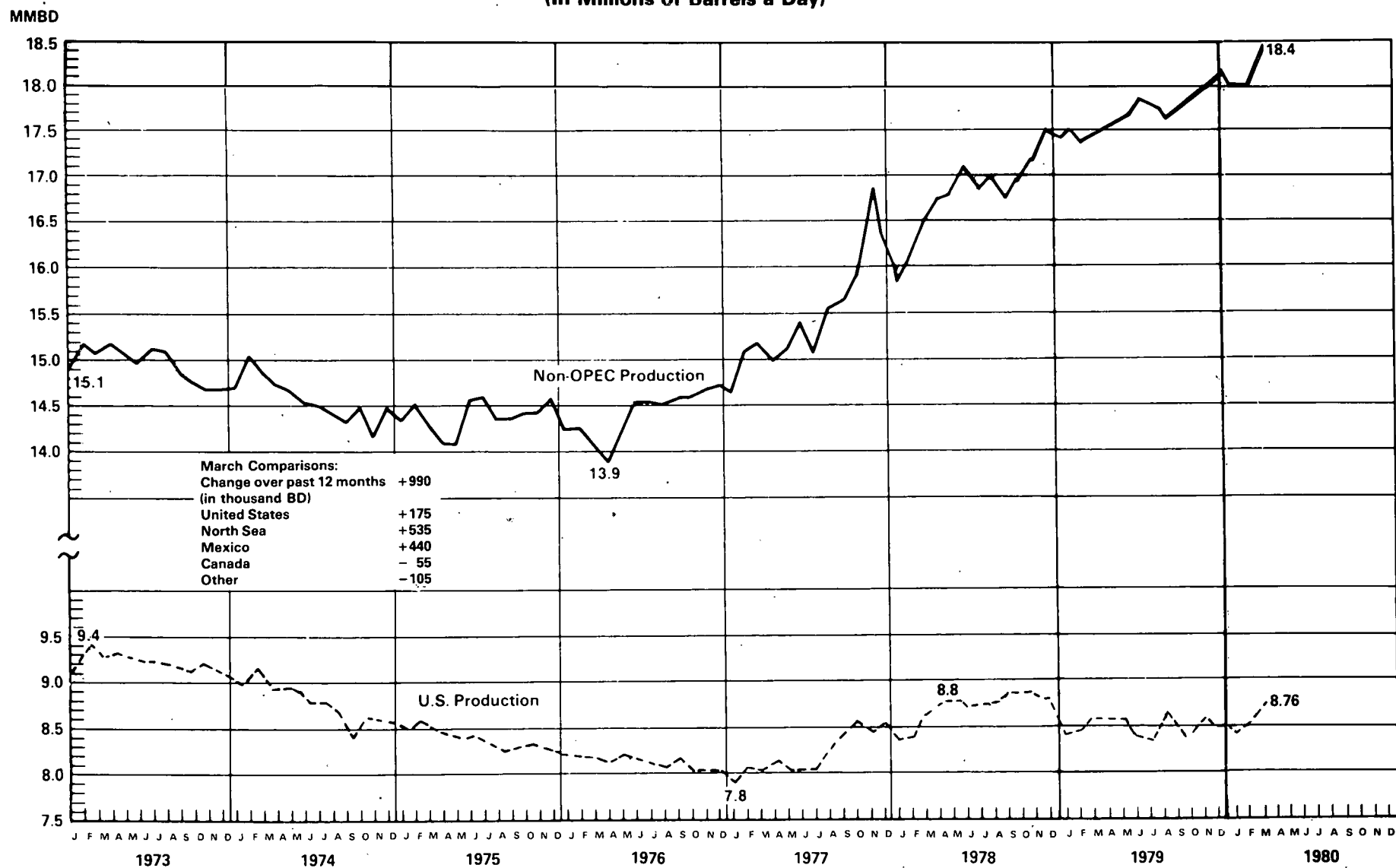


Non-OPEC Free World and U.S. Production of Crude Oil, 1973 — **(In Thousands of Barrels a Day)**

Month	Non-OPEC Production	US Production	Month	Non-OPEC Production	US Production	Month	Non-OPEC Production	US Production
1973			1975			1978		
January	14,930	9,180	July	14,590	8,330	January	15,830	8,360
February	15,160	9,400	August	14,350	8,240	February	16,060	8,377
March	15,080	9,270	September	14,350	8,270	March	16,470	8,720
April	15,160	9,290	October	14,420	8,310	April	16,740	8,818
May	15,070	9,260	November	14,270	8,270	May	16,770	8,825
June	14,960	9,210	December	14,550	8,240	June	17,120	8,832
July	15,120	9,220	AVERAGE	14,367	8,375	July	16,890	8,756
August	15,080	9,170				August	16,962	8,758
September	14,860	9,070	1976			September	16,716	8,800
October	14,750	9,220	January	14,230	8,210	October	16,910	8,820
November	14,660	9,160	February	14,250	8,200	November	17,180	8,741
December	14,660	9,060	March	14,050	8,180	December	17,460	8,662
AVERAGE	14,957	9,210	April	13,900	8,080	AVERAGE	16,759	8,707
			May	14,250	8,170			
1974			June	14,520	8,140	1979		
January	14,700	8,930	July	14,530	8,100	January	17,444	8,457
February	15,040	9,140	August	14,500	8,070	February	17,515	8,498
March	14,860	8,970	September	14,570	8,190	March	17,440	8,585
April	14,730	8,950	October	14,580	8,050	April	17,555	8,533
May	14,690	8,910	November	14,660	8,040	May	17,520	8,585
June	14,540	8,780	December	14,730	8,010	June	17,650	8,409
July	14,520	8,780	AVERAGE	14,397	8,132	July	17,820	8,355
August	14,410	8,700				August	17,735	8,699
September	14,330	8,440	1977			September	17,605	8,510
October	14,490	8,610	January	14,620	7,790	October	17,780	8,460
November	14,270	8,570	February	15,100	8,070	November	17,965	8,530
December	14,480	8,530	March	15,200	8,020	December	18,110	8,480
AVERAGE	14,588	8,770	April	14,950	8,080	AVERAGE	17,678	8,505
			May	15,150	8,010			
1975			June	15,410	8,040	1980		
January	14,350	8,440	July	15,080	8,040	January*	18,165	8,460
February	14,500	8,580	August	15,560	8,240	February*	18,040	8,505
March	14,300	8,480	September	15,610	8,420	March*	18,430	8,760
April	14,100	8,440	October	15,860	8,520			
May	14,070	8,370	November	16,810	8,460			
June	14,550	8,410	December	16,350	8,540			
			AVERAGE	15,475	8,245			

Sources: CIA Energy Branch
Monthly Energy Review
*Preliminary estimates

Non-OPEC Free World and U.S. Production of Crude Oil, 1973 - (In Millions of Barrels a Day)



Source: Monthly Energy Review
CIA, Energy Branch

**Oil Stocks: Free World, U.S., Japan and Europe (Landed), 1973 —
(In Million Barrels, End of Quarter)**

Year	United States*	Japan**	Europe (Big Five)***	Total World†
1973†				
I				2,600
II				2,900
III	1,058	322		3,200
IV				3,100
1974†				
I	995	277		3,000
II	1,102	345		3,400
III	1,156	381		3,700
IV	1,115	356		3,600
1975				
I	1,076	314		3,300
II	1,071	335		3,400
III	1,147	354		3,600
IV	1,111	348		3,500
1976				
I	1,060	314	734	3,200
II	1,094	347	784	3,500
III	1,191	387	868	3,700
IV	1,112	377	861	3,600
1977				
I	1,087	349	813	3,400
II	1,195	385	855	3,700
III	1,303	402	909	4,000
IV	1,312	407	895	4,000
1978				
I	1,168	383	781	3,500
II	1,185	396	787	3,600
III	1,263	392	837	3,800†
IV	1,228	411	840	3,794
1979				
I	1,146	380	777	3,427
II	1,210	392	846	3,700
III	1,308	437	952	4,200
IV	1,326	459	955	4,300
1980				
I	1,366			4,200

*U.S. stocks include Strategic Petroleum Reserves which held about 91.7 million bbl as of January 31, 1980.

**Japanese stocks include government-owned strategic stockpiles. The amount was 33 million bbl at the end of 1979.

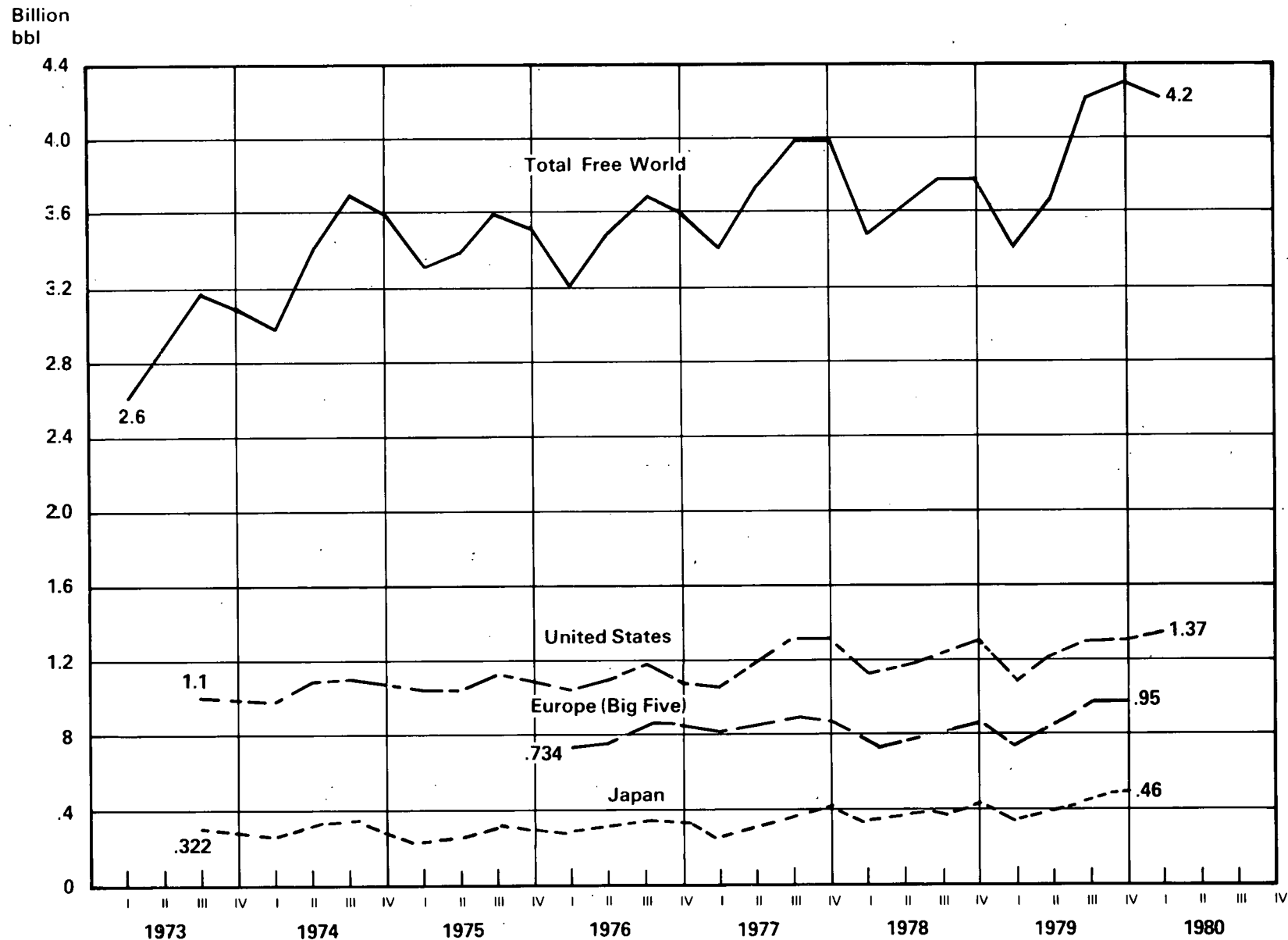
***Europe's "Big Five" include Germany, France, UK, Italy and the Benelux countries.

†Estimated

Total World: DOE/IA estimates.

Oil Stocks: Free World, U.S., Japan and Europe, 1973 —

End of Quarter
(In Billions of Barrels)



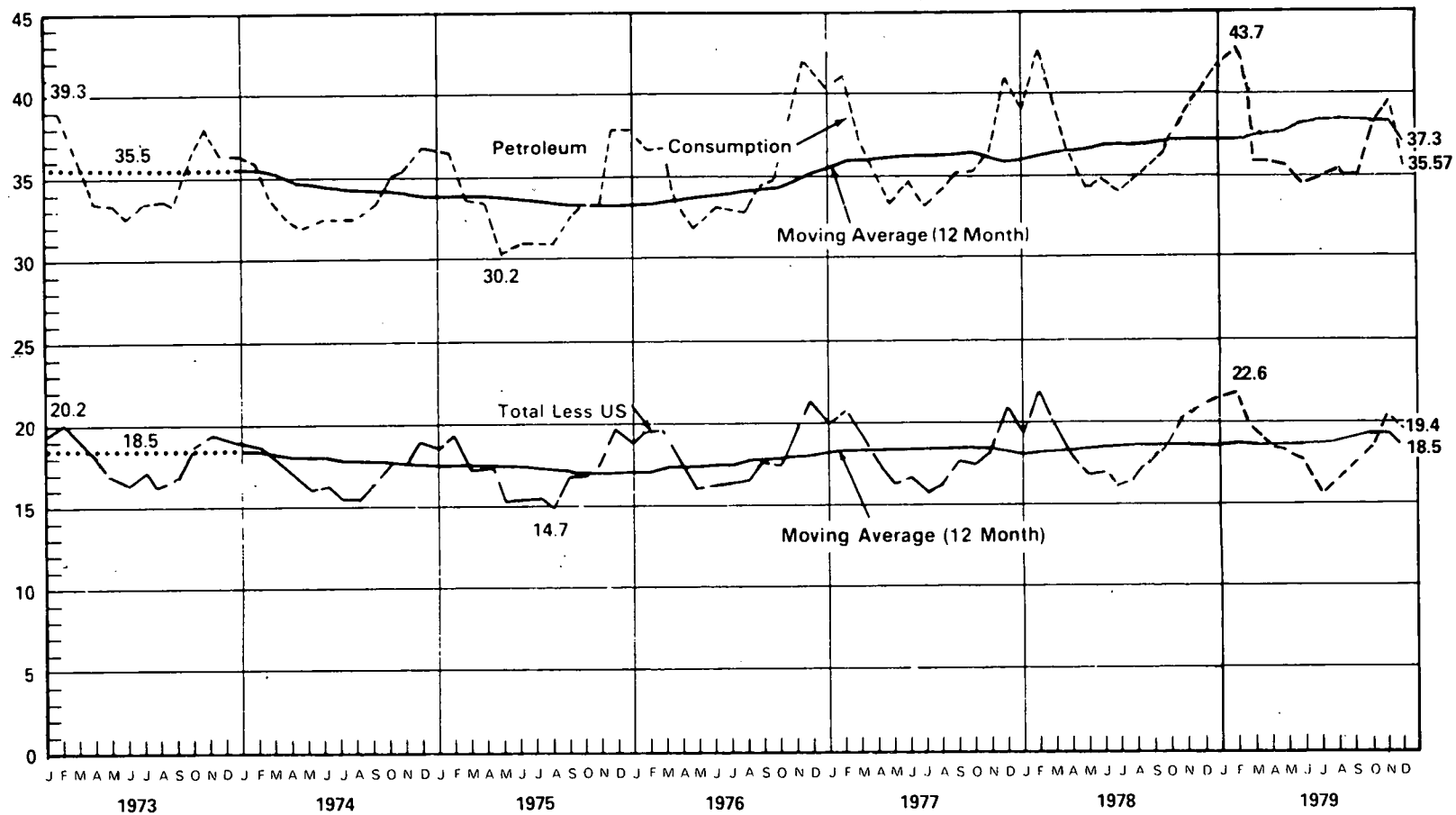
Source: CIA, Energy Branch; OECD, DOE/IA.

Petroleum Consumption by Industrial Countries, 1973 — (In Thousands of Barrels a Day)

Month	Total IEA Plus France	Total Less US	Month	Total IEA Plus France	Total Less US	Month	Total IEA Plus France	Total Less US
1973			July	30,891	15,151	1978		
January	38,443	19,730	August	30,500	14,694	January	39,245	19,554
February	39,287	20,193	September	32,185	16,417	February	42,498	21,624
March	36,628	19,412	October	32,917	16,540	March	39,136	19,509
April	33,896	17,975	November	33,077	17,300	April	35,444	17,730
May	33,390	16,764	December	37,758	19,573	May	34,731	16,598
June	32,885	16,404				June	34,887	16,616
July	33,455	17,083	1976			July	33,664	16,033
August	33,695	16,196	January	37,532	18,934	August	34,825	16,214
September	33,432	16,776	February	36,892	19,463	September	35,365	17,432
October	36,182	18,980	March	36,672	19,373	October	36,697	18,289
November	37,993	19,501	April	33,616	16,945	November	39,572	20,396
December	36,668	19,130	May	31,695	15,718	December	41,400	21,480
			June	32,903	16,067			
1974			July	32,724	16,111	1979		
January	36,223	18,937	August	32,768	16,126	January	42,686	22,046
February	36,089	18,723	September	34,166	17,341	February	43,731	22,579
March	33,849	17,745	October	34,208	17,156	March	39,615	20,435
April	32,570	16,641	November	38,104	19,257	April	36,050	18,739
May	31,915	16,189	December	41,787	21,281	May	36,139	18,438
June	32,203	16,086				June	35,283	17,588
July	32,003	15,654	1977			July	34,604	16,698
August	32,106	15,556	January	40,219	19,738	August	35,253	17,172
September	32,696	16,672	February	40,986	20,559	September	34,721	17,448
October	34,845	17,795	March	37,109	19,053	October	37,007	18,883
November	35,260	17,909	April	34,843	17,273	November	38,681	20,462
December	36,792	18,779	May	33,146	16,186	December	37,278	18,465
			June	34,615	16,567			
1975			July	33,149	15,600			
January	36,290	18,286	August	34,090	16,081			
February	36,343	19,259	September	35,183	17,450			
March	33,552	17,237	October	35,182	17,351			
April	33,402	17,354	November	36,481	18,041			
May	30,240	15,085	December	40,846	20,800			
June	30,942	15,332						

Petroleum Consumption by Industrial Countries, 1973 — (In Millions of Barrels a Day)

MMBD



- Consumption is that of the 20 IEA countries plus France. Australia joined the IEA in March 1979, but is not yet included in the statistics.
- Except for the U.S., consumption excludes bunkers, refinery fuel and losses.

Source: CIA, Energy Branch
DOE Monthly Energy Review

USSR Crude Oil Production and Exports, 1974 — (In Thousands of Barrels a Day)

Month	Production	Annual Exports (Total)	Month	Production	Annual Exports (Total)	Month	Production	Annual Exports (Total)
1974								
January	8,950		May	10,240		September	11,451	
February	8,840		June	10,320		October	11,660	
March	9,020		July	10,380		November	11,700	
April	9,030		August	10,410		December	11,468	
May	9,140		September	10,460		AVERAGE	11,430	3,160
June	9,170		October	10,550		1979		
July	9,210		November	10,640		January	11,600	
August	9,040		December	10,670		February	11,600	
September	9,390		AVERAGE	10,390	2,970	March	11,600	
October	9,400		1977			April	11,730	
November	9,440		January	10,640		May	11,350	
December	9,440		February	10,690		June	11,680	
AVERAGE	9,180	2,340	March	10,830		July	11,630	
1975			April	10,850		August	11,800	
January	9,490		May	10,860		September	11,680	
February	9,590		June	10,930		October	11,870	
March	9,680		July	10,950		November	11,920	
April	9,680		August	10,970		December	11,960*	
May	9,730		September	11,000		AVERAGE	11,710*	3,000*
June	9,810		October	11,090		1980		
July	9,800		November	11,050		January	11,870	
August	9,890		December	11,110		February	11,860	
September	9,970		AVERAGE	10,920	3,065	March*	11,890	
October	10,030		1978			April*	11,950	
November	10,020		January	11,110		May*	12,010	
December	10,080		February	11,180				
AVERAGE	9,820	2,600	March	11,280				
1976			April	11,310				
January	10,030		May	11,350				
February	10,170		June	11,390				
March	10,270		July	11,440				
April	10,240		August	11,490				

Source: CIA, Energy Branch

Note: Figures include natural gas liquids.

Annual totals as calculated by CIA.

Export figures revised. Include

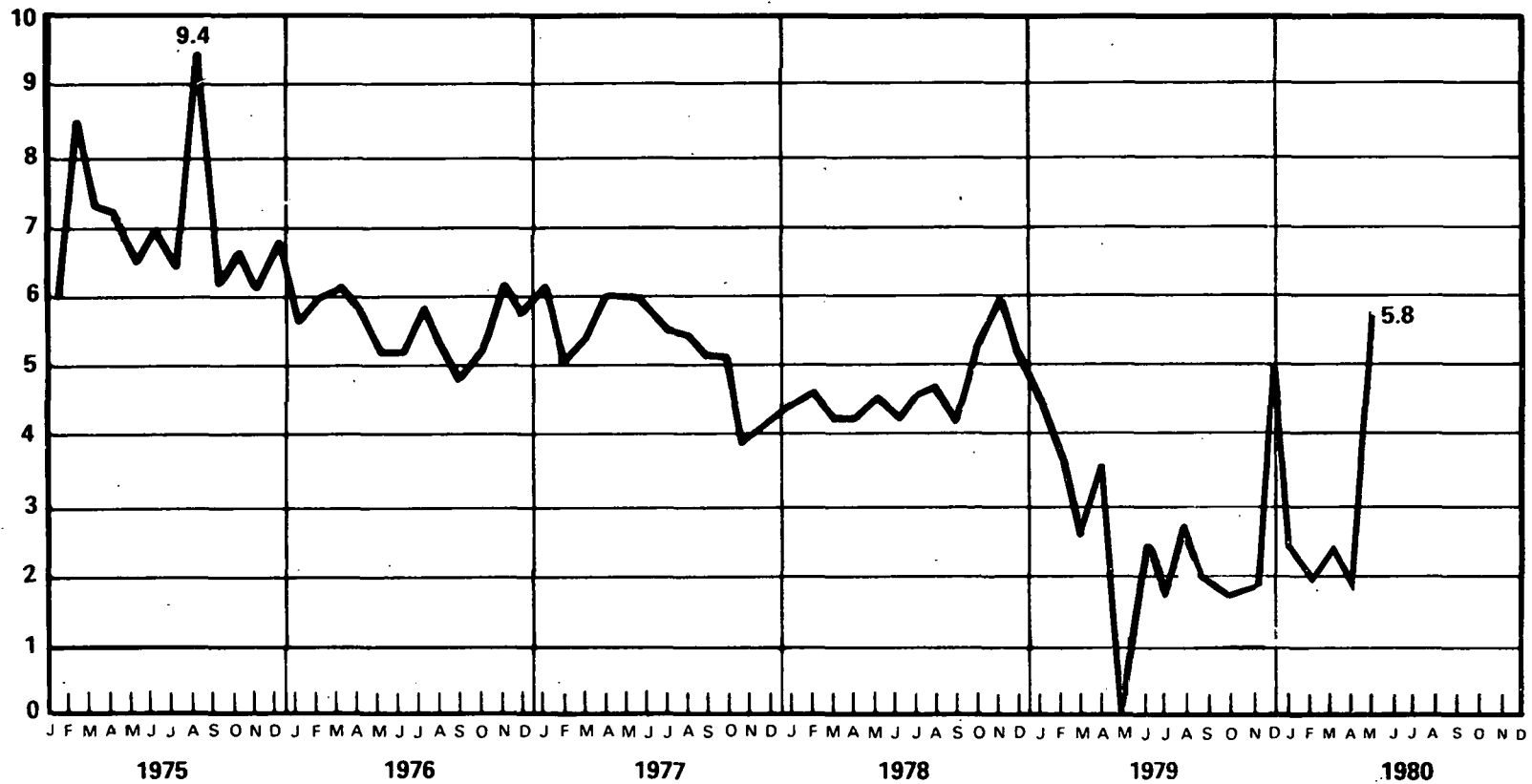
Bloc and Free World destinations.

*Preliminary estimates

USSR Crude Oil Production, 1975 — (Including Natural Gas Liquids)

**Rate of Change in Production Over
Same Period of Preceding Year**

Percent

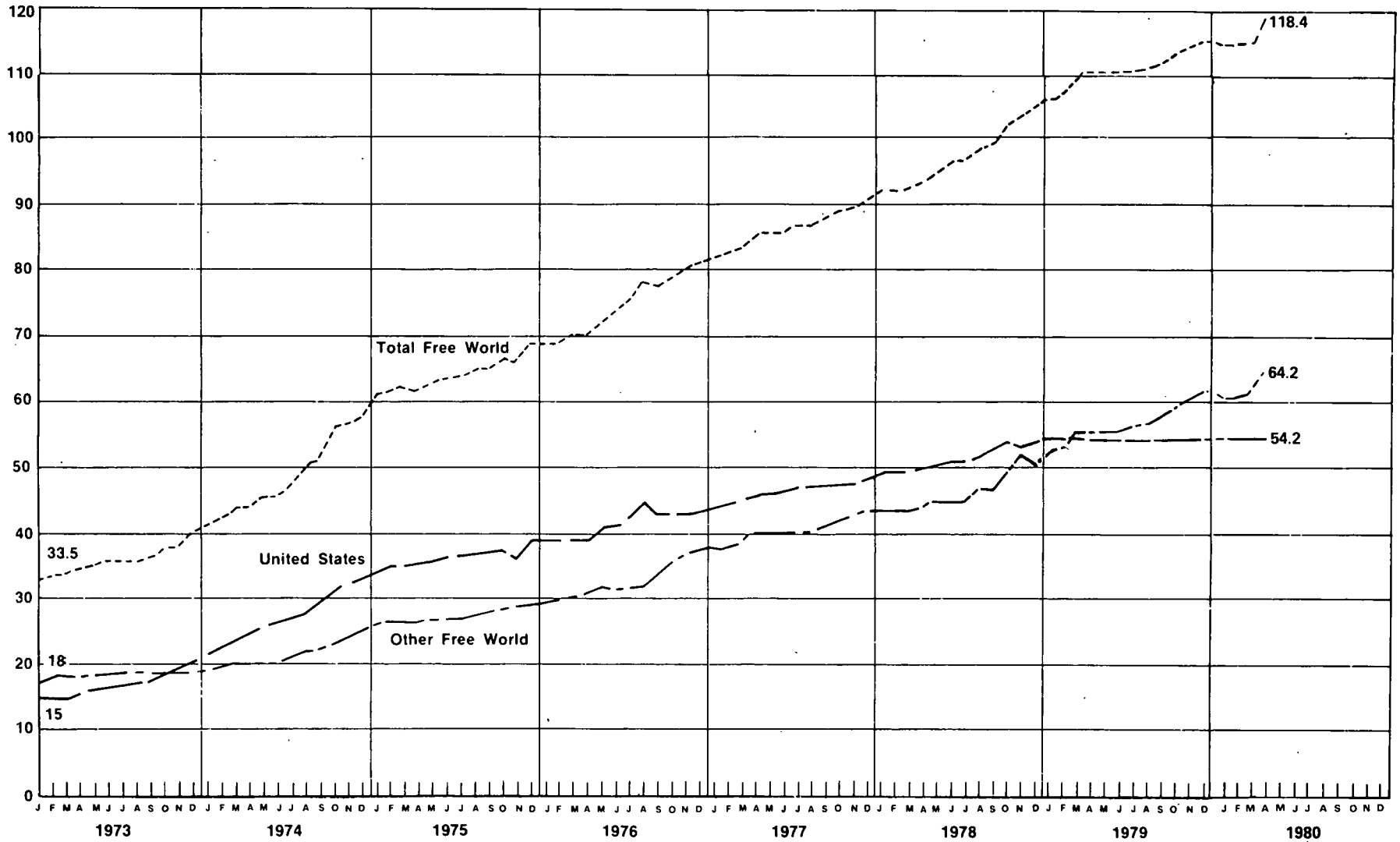


Free World and U.S. Nuclear Generation Capacity, 1973 — (In Megawatts)

Month	Free World Ex-US	United States	Total Free World	Month	Free World Ex-US	United States	Total Free World	Month	Free World Ex-US	United States	Total Free World
1973				July	27,064	37,334	64,398	1978			
January	18,109	15,449	33,558	August	27,984	37,330	65,314	January	43,353	49,250	92,603
February	18,759	15,471	34,230	September	28,394	37,330	65,724	February	43,330	49,300	92,630
March	18,779	15,471	34,250	October	28,953	38,130	67,083	March	43,350	50,430	93,780
April	18,779	16,295	35,074	November	29,779	36,570	66,349	April	44,140	50,430	94,570
May	19,237	16,295	35,532	December	29,792	39,399	69,191	May	45,100	50,470	95,570
June	19,237	17,023	36,260					June	45,100	51,400	96,500
July	19,237	17,023	36,260	1976				July	45,130	51,400	96,530
August	19,237	17,023	36,260	January	29,792	39,400	69,192	August	46,570	51,400	97,970
September	19,237	17,910	37,147	February	29,770	39,350	69,120	September	46,570	52,360	98,930
October	19,237	19,417	38,654	March	31,094	39,350	70,444	October	48,337	53,183	101,520
November	19,237	19,417	38,654	April	31,094	39,370	70,464	November	51,030	53,140	104,170
December	19,714	20,887	40,601	May	32,394	41,240	73,634	December	50,940	54,120	105,060
				June	33,054	42,085	75,139				
1974				July	33,057	42,715	75,782	1979			
January	19,972	22,810	42,782	August	33,067	45,680	78,747	January	52,360	54,180	106,540
February	19,976	23,648	43,624	September	34,729	43,200	77,929	February	53,300	54,180	107,480
March	20,436	24,748	45,184	October	35,479	43,200	78,679	March	55,150	54,180	109,330
April	20,436	25,208	45,644	November	36,965	43,200	80,165	April	56,230	54,180	110,410
May	20,428	25,391	46,419	December	36,965	44,080	81,045	May	56,200	54,180	110,380
June	20,416	26,016	46,432					June	56,200	54,180	110,380
July	21,420	26,551	47,971	1977				July	56,190	54,220	110,410
August	22,580	28,293	50,873	January	37,815	44,080	81,895	August	57,160	54,200	111,360
September	22,580	29,130	51,760	February	37,815	44,910	82,725	September	58,470	54,200	112,670
October	23,940	32,340	56,280	March	38,758	44,910	83,668	October	59,559	54,181	113,741
November	24,667	32,827	57,494	April	40,304	46,090	86,394	November	61,703	54,193	115,896
December	25,136	33,338	58,474	May	40,381	46,040	86,421	December	61,703	54,191	115,894
				June	40,381	46,230	86,611				
1975				July	40,361	47,110	87,471	1980			
January	26,454	34,626	61,080	August	40,301	46,930	87,231	January	61,452	54,191	115,643
February	26,936	35,429	62,365	September	40,957	47,073	88,030	February	61,409	54,190	115,599
March	26,569	35,446	62,015	October	41,858	47,311	89,169	March	63,323	54,192	117,515
April	26,449	35,495	61,944	November	42,492	47,370	89,862	April	64,223	54,185	118,409
May	27,064	36,495	63,559	December	43,352	48,340	91,692				
June	27,064	37,344	64,408								

Free World and U.S. Nuclear Generation Capacity, 1973 — (In Thousand Megawatts)

Thousand
MW



Source: Nucleonics Week

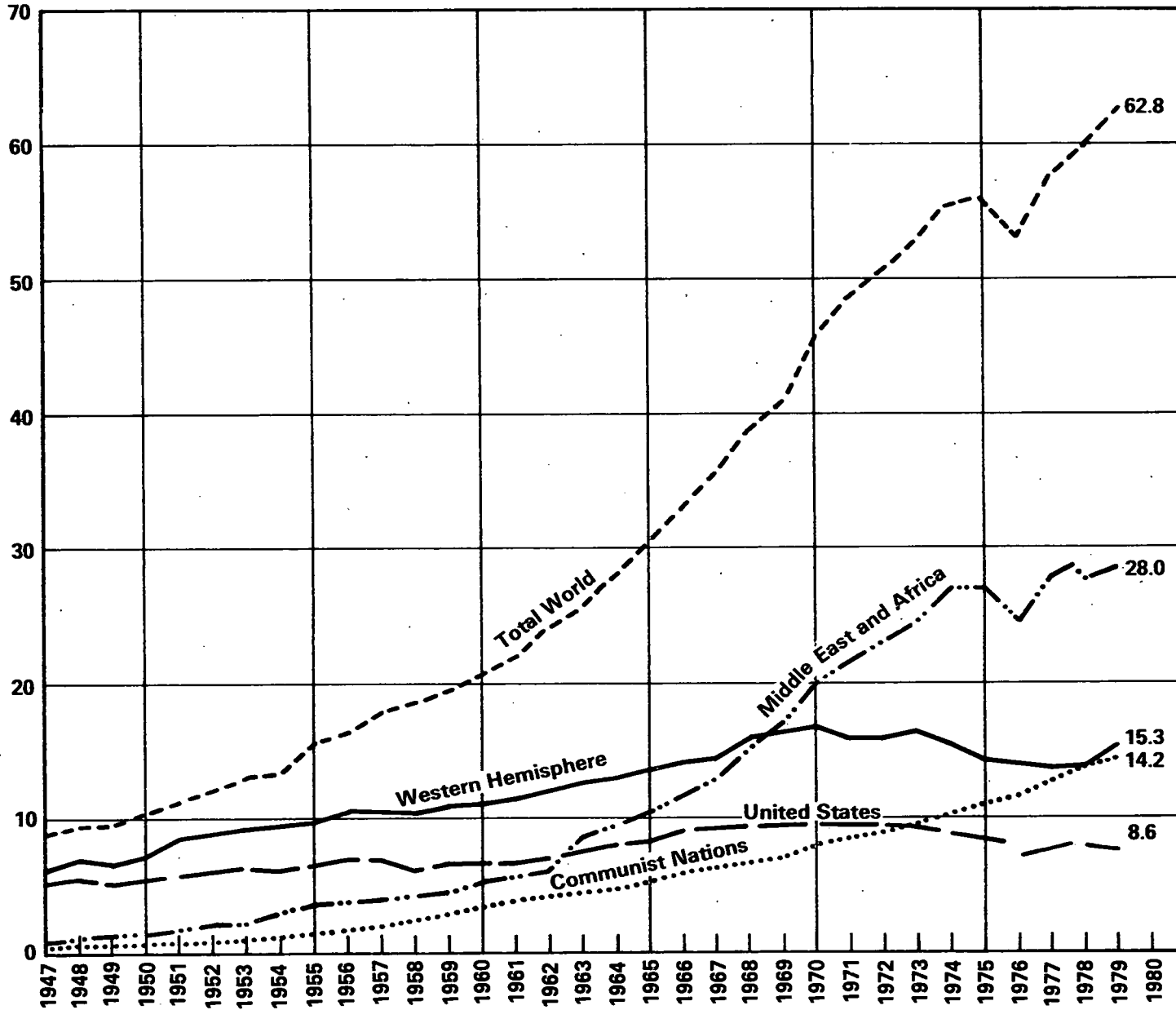
**World Crude Oil Production by Area, 1947 —
(In Thousands of Barrels per Day)**

Year	U.S.	Western Hemisphere	Middle East & Africa	Communist Nations	Total World
1947	5,088	6,682	863	633	8,280
1948	5,520	7,284	1,176	732	9,380
1949	5,046	6,843	1,446	785	9,326
1950	5,407	7,450	1,802	860	10,419
1951	6,158	8,492	1,966	906	11,734
1952	6,256	8,728	2,126	1,117	12,380
1953	6,458	8,950	2,473	1,258	13,145
1954	6,342	9,053	2,779	1,412	13,744
1955	6,807	9,902	3,286	1,668	15,413
1956	7,151	10,703	3,480	1,954	16,734
1957	7,170	11,112	3,592	2,250	17,640
1958	6,710	10,490	4,356	2,552	18,103
1959	7,054	11,124	4,730	2,901	19,543
1960	7,035	11,284	5,543	3,301	20,968
1961	7,183	11,693	6,122	3,745	22,428
1962	7,332	12,249	6,990	4,163	24,334
1963	7,542	12,585	8,002	4,582	26,132
1964	7,614	12,860	9,316	4,978	28,168
1965	7,804	13,226	10,591	5,418	30,308
1966	8,295	13,749	12,159	5,932	32,936
1967	8,810	14,660	13,164	6,377	35,382
1968	9,096	15,301	15,290	6,751	38,651
1969	9,238	15,473	17,516	7,230	41,706
1970	9,637	16,150	20,026	7,876	45,805
1971	9,463	15,897	22,026	8,490	48,391
1972	9,441	15,858	23,815	8,882	50,822
1973	9,208	16,175	27,141	9,872	55,803
1974	8,774	15,364	27,334	10,946	56,268
1975	8,362	14,181	24,623	11,858	53,418
1976	8,119	13,907	27,817	12,611	57,702
1977	8,245	13,097	28,665	13,130	60,002
1978	8,701	13,576	27,723	13,598	60,708
1979	8,596	15,349	28,049	14,237	62,767

Source: DOE/Bureau of Mines, Oil and Gas Journal

World Crude Oil Production by Area, 1947 — (In Millions of Barrels per Day)

MMBD

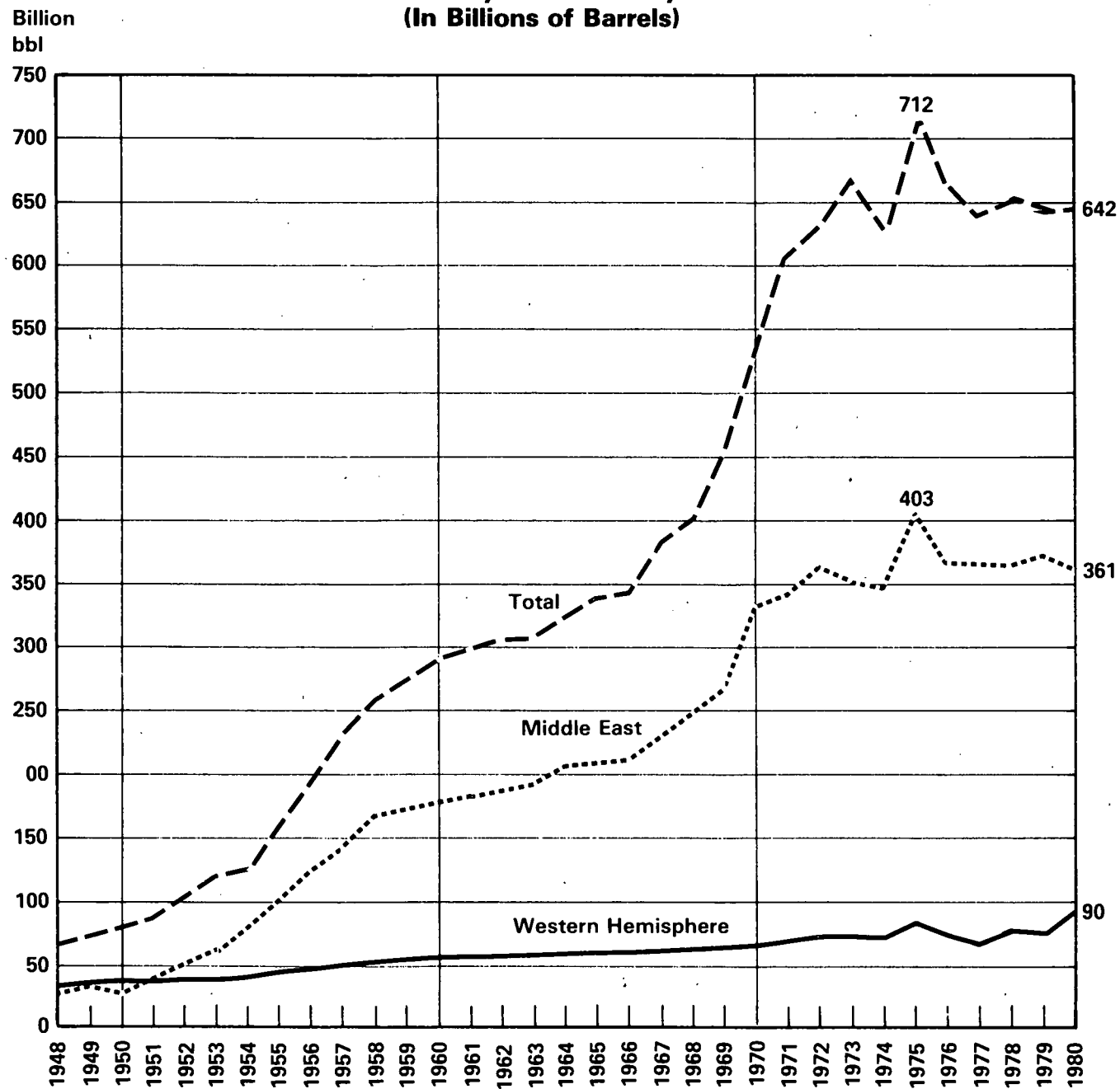


Estimated Proved World Reserves of Crude Oil
Annually as of January 1
(In Millions of Barrels)

Year	Total World	Middle East	Western Hemisphere	Year	Total World	Middle East	Western Hemisphere
1948	68,198	28,550	31,698	1965	338,668	212,180	62,693
1949	73,599	32,621	34,660	1966	348,119	215,360	63,234
				1967	381,885	235,615	66,344
1950	76,453	32,413	37,250	1968	407,553	249,209	66,453
1951	89,926	41,567	37,996	1969	454,735	270,760	67,872
1952	103,444	51,320	41,555				
1953	118,454	64,825	41,524	1970	530,534	333,506	67,431
1954	134,970	78,160	43,972	1971	611,195	344,575	73,746
				1972	632,553	367,386	77,955
1955	157,500	97,459	46,124	1973	664,220	355,852	76,961
1956	189,571	126,271	48,037	1974	626,706	350,163	74,614
1957	227,958	144,470	50,758				
1958	260,640	169,566	54,178	1975	712,419	403,898	81,999
1959	272,403	173,951	55,545	1976	657,921	368,411	74,703
				1977	640,090	367,681	66,808
1960	290,035	181,436	59,652	1978	645,805	366,166	75,827
1961	297,744	183,160	60,354	1979	641,608	369,996	75,746
1962	305,407	188,204	60,368	1980	641,624	361,947	89,773
1963	309,514	193,975	60,095				
1964	326,947	207,368	60,156				

Source: API, Canadian
Petroleum Institute,
Oil and Gas Journal

Estimated Proved Reserves of Crude Oil Annually as of January 1 (In Billions of Barrels)



World Marketed Production of Natural Gas (In Billions of Cubic Feet)

Year	U.S. and Canada	Communist Nations	Total World	Year	U.S. and Canada	Communist Nations	Total World
1950	6,354	NA	6,702	1965	17,482	5,140	24,480
1951	7,541	255	8,123	1966	18,548	5,754	26,394
1952	8,107	305	8,783	1967	19,643	6,328	28,398
1953	8,504	504	9,462	1968	21,015	7,073	31,403
1954	8,870	538	9,919	1969	22,676	7,569	34,385
1955	9,556	525	10,710	1970	24,198	8,729	38,084
1956	10,251	657	11,622	1971	24,992	9,473	41,188
1957	10,900	926	12,677	1972	25,445	10,127	43,514
1958	11,368	1,380	13,782	1973	25,767	10,958	46,128
1959	12,463	1,688	15,405	1974	24,646	12,117	47,171
1960	13,294	2,192	16,917	1975	23,184	13,276	47,207
1961	13,910	2,748	18,388	1976	23,020	14,361	49,459
1962	14,823	3,366	20,092	1977*	23,600	16,000	53,900
1963	15,778	3,678	21,019	1978*	23,056	17,638	58,860
1964	16,790	4,397	22,868	1979*	23,649	19,580	57,190

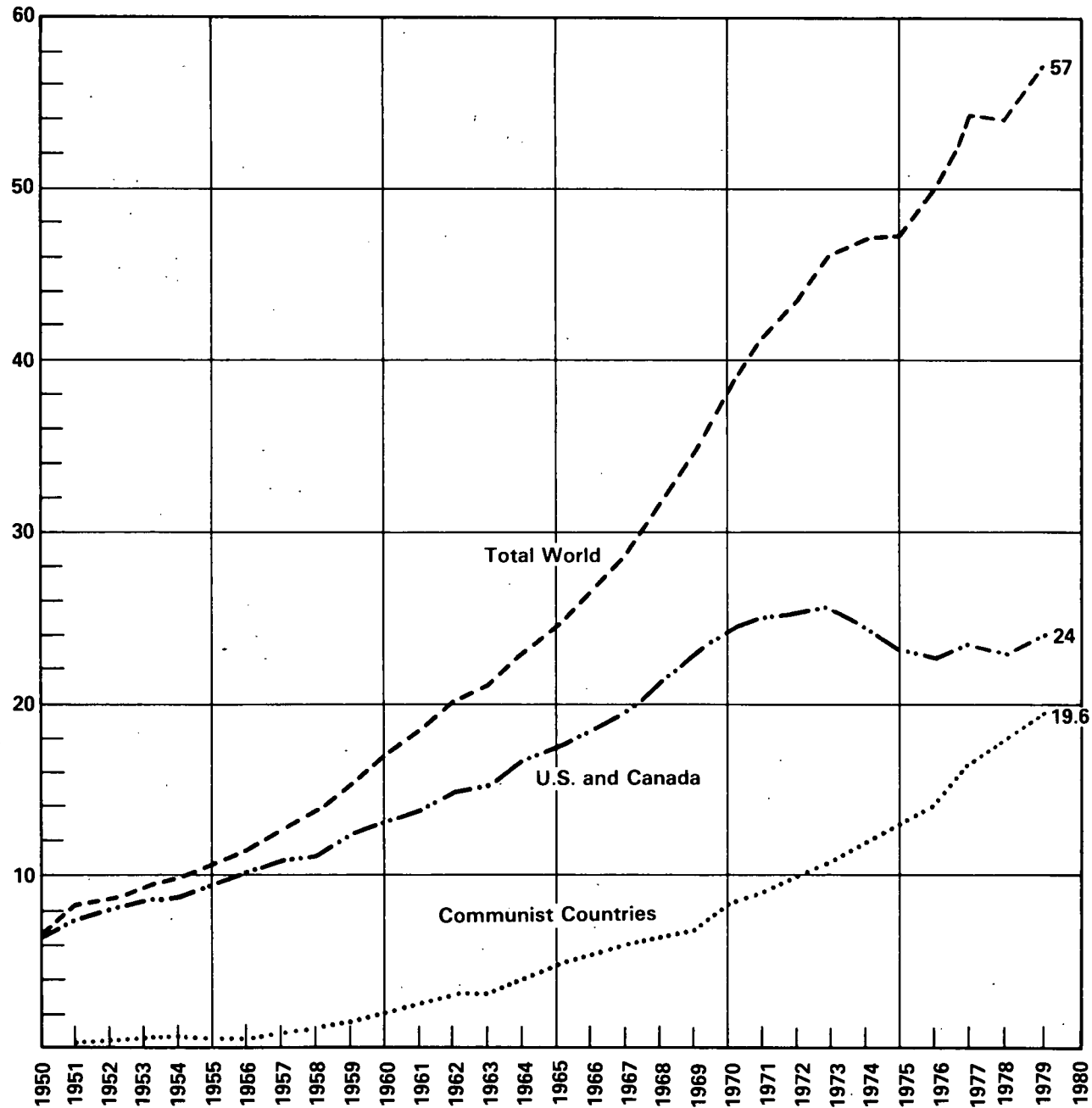
*Preliminary

Note: Some countries do not distinguish between marketed and flared gas.

Source: U.S. Bureau of Mines, Oil and Gas Journal

World Marketed Production of Natural Gas (In Trillions of Cubic Feet)

Trillions
of CF



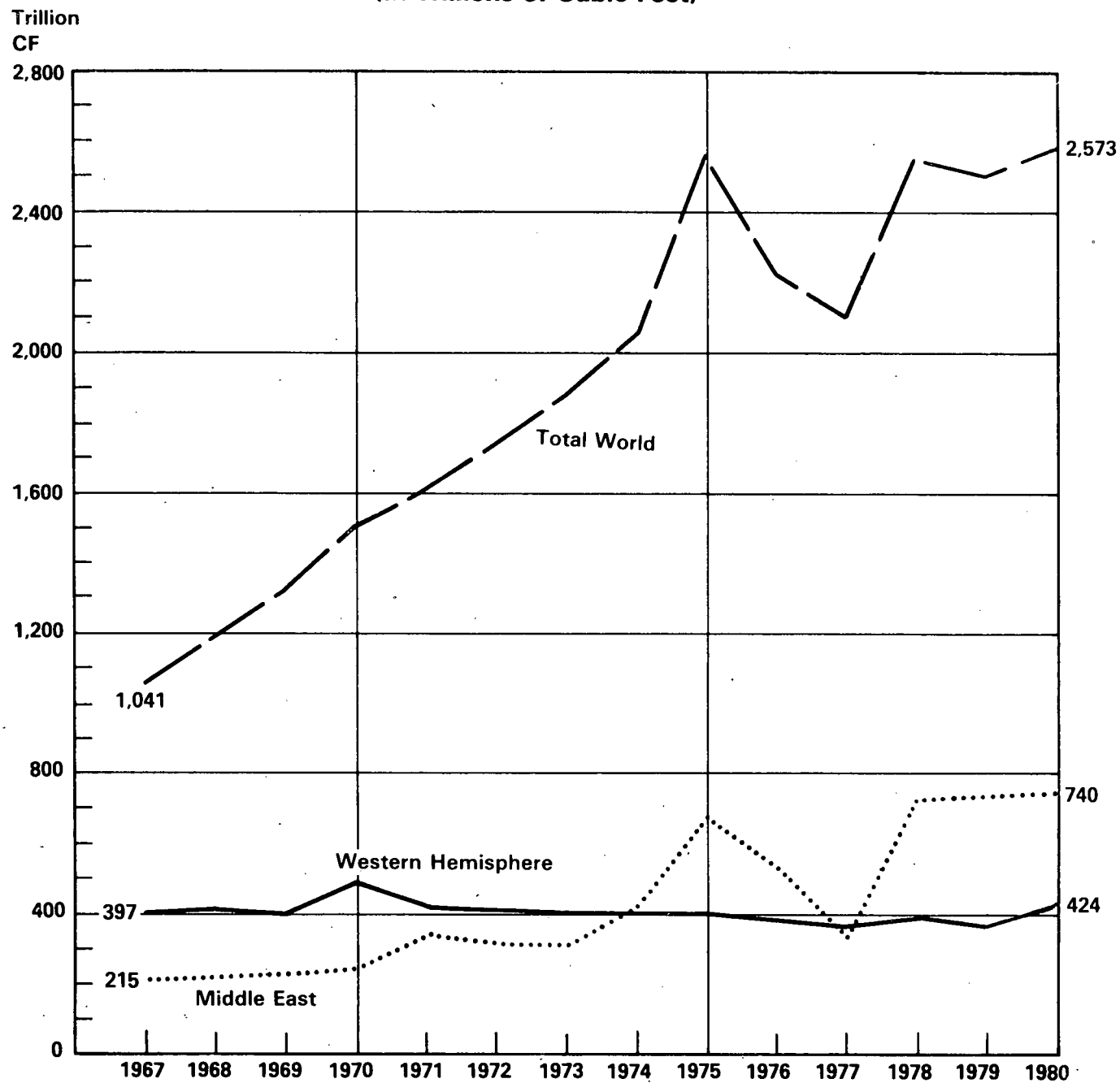
Source: U.S. Bureau of Mines;
Oil and Gas Journal

Estimated Proved World Reserves of Natural Gas
Annually as of January 1
(In Trillions of Cubic Feet)

Year	Total World	Middle East	Western Hemisphere
1967	1,041	215	397
1968	1,183	221	406
1969	1,327	224	398
1970	1,491	235	490
1971	1,607	354	417
1972	1,735	344	407
1973	1,875	344	398
1974	2,038	413	394
1975	2,546	673	394
1976	2,249	539	376
1977	2,115	326	365
1978	2,520	720	377
1979	2,502	731	377
1980	2,573	740	424

Source U.S.: American Gas Association
Canada: Canadian Petroleum Association
Rest of the World: Oil and Gas Journal

Estimated Proved World Reserves of Natural Gas
Annually as of January 1
(In Trillions of Cubic Feet)



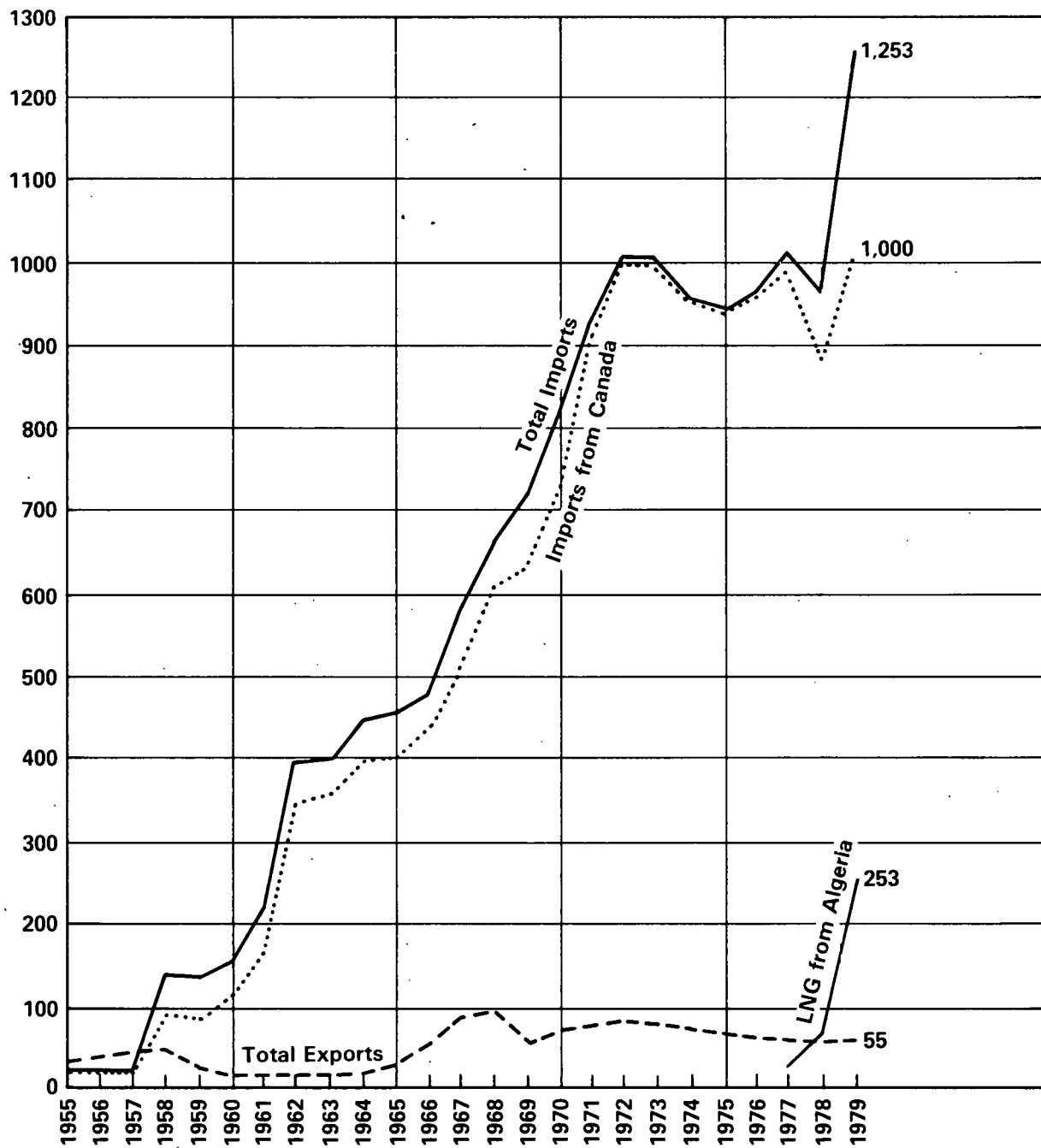
**U.S. Trade in Natural Gas, 1955 —
(In Billions of Cubic Feet per Year)**

Year	Via Pipeline		Imports of LNG	Total Imports	Total Exports Pipeline and LNG
	Imports from Canada	Imports from Mexico			
1955	10,885	7		10,892	31,397
1956	10,586	6		10,592	36,663
1957	21,060	16,970		38,030	40,366
1958	88,230	46,211		134,441	42,918
1959	81,892	50,929		132,821	22,534
1960	109,855	46,988		156,843	16,100
1961	168,822	51,755		220,577	15,216
1962	342,770	51,066		393,836	15,830
1963	357,961	49,762		407,723	16,948
1964	392,239	52,620		444,859	19,496
1965	404,687	52,007		456,694	27,428
1966	431,955	48,636		480,491	54,860
1967	513,256	50,972		564,228	81,595
1968	604,462	47,423		651,885	93,745
1969	680,107	46,845		726,952	51,326
1970	778,688	41,336		820,024	69,538
1971	910,925	20,689		931,615	74,134
1972	1,009,092	8,140		1,017,233	80,132
1973	1,027,216	1,632		1,028,848	76,723
1974	959,063	222		959,285	74,831
1975	948,115	-0-		948,115	69,673
1976	953,613	-0-		953,613	64,931
1977	996,723	2,384	11,896	1,011,003	55,655
1978	881,123	-0-	84,422	965,550	52,533
1979	1,000,775	-0-	252,608	1,253,383	55,673

Source: DOE/EIA

U.S. Exports and Imports of Natural Gas, 1955— (In Billions of Cubic Feet)

Billions of
Cubic Feet



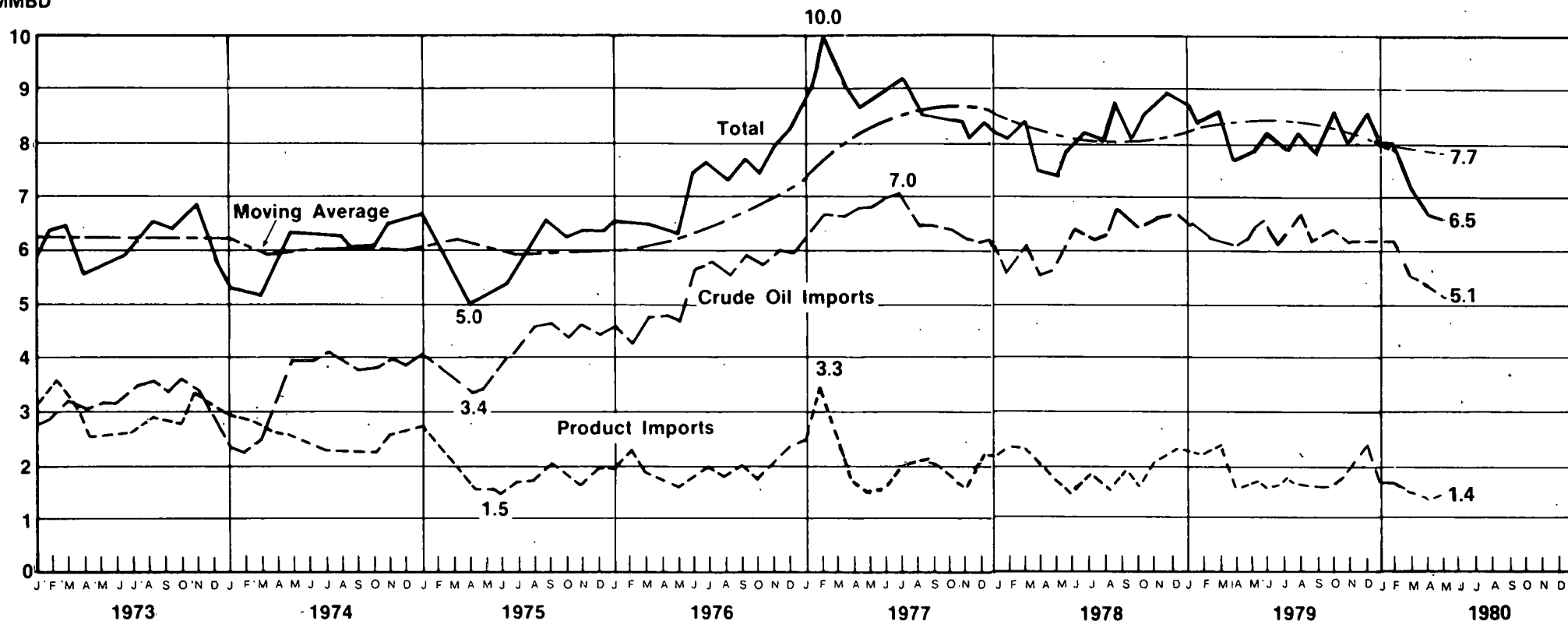
U.S. Imports of Crude Oil and Products, 1973 — **(In Thousands of Barrels a Day)**

Month	Crude Oil	Product	Total	Month	Crude Oil	Product	Total	Month	Crude Oil	Product	Total
1973				1976				1978			
January	2,732	3,125	5,857	January	4,595	2,071	6,666	January	6,126	2,092	8,218
February	2,873	3,635	6,508	February	4,208	2,423	6,631	February	5,655	2,355	8,010
March	3,162	3,448	6,610	March	4,738	1,945	6,683	March	6,031	2,338	8,369
April	3,049	2,545	5,594	April	4,790	1,805	6,595	April	5,519	2,115	7,634
May	3,215	2,626	5,841	May	4,669	1,654	6,323	May	5,594	1,804	7,398
June	3,220	2,670	5,890	June	5,621	1,858	7,479	June	6,322	1,640	7,962
July	3,501	2,678	6,179	July	5,792	2,099	7,890	July	6,175	1,948	8,123
August	3,593	2,999	6,592	August	5,556	1,826	7,382	August	6,251	1,858	8,109
September	3,471	2,941	6,412	September	5,875	2,038	7,913	September	6,829	1,983	8,811
October	3,739	2,894	6,633	October	5,699	1,808	7,508	October	6,400	1,718	8,119
November	3,452	3,470	6,922	November	5,946	2,115	8,060	November	6,643	2,021	8,664
December	2,891	3,164	6,055	December	5,925	2,468	8,393	December	6,751	2,245	8,996
AVERAGE	3,244	3,012	6,256	AVERAGE	5,287	2,026	7,313	AVERAGE	6,195	2,008	8,202
1974				1977				1979			
January	2,382	2,973	5,355	January	6,281	2,622	8,903	January	6,562	2,205	8,767
February	2,248	2,973	5,221	February	6,659	3,338	9,997	February	6,249	2,069	8,318
March	2,462	2,753	5,215	March	6,699	2,684	9,383	March	6,180	2,385	8,565
April	3,267	2,703	5,970	April	6,821	1,902	8,723	April	6,047	1,666	7,713
May	3,908	2,580	6,488	May	6,818	1,753	8,571	May	6,092	1,809	7,901
June	3,925	2,493	6,418	June	7,065	1,872	8,937	June	6,523	1,672	8,195
July	4,091	2,397	6,488	July	7,068	2,027	9,095	July	6,120	1,783	7,902
August	3,924	2,434	6,358	August	6,395	2,179	8,574	August	6,692	1,675	8,367
September	3,797	2,225	6,022	September	6,429	2,137	8,567	September	6,321	1,599	7,921
October	3,810	2,340	6,150	October	6,409	1,862	8,272	October	6,783	1,785	8,568
November	3,958	2,704	6,662	November	6,248	1,814	8,062	November	6,154	1,903	8,057
December	3,869	2,781	6,650	December	6,248	2,198	8,446	December	6,161	2,199	8,360
AVERAGE	3,477	2,635	6,112	AVERAGE	6,594	2,193	8,787	AVERAGE	6,325	1,896	8,221
1975				1980				1980			
January	4,029	2,832	6,861	January				January	6,122	1,872	7,994
February	3,828	2,348	6,176	February				February*	5,842	1,822	7,664
March	3,656	2,074	5,730	March				March*	5,427	1,604	7,031
April	3,378	1,662	5,040	April				April*	5,308	1,362	6,670
May	3,486	1,728	5,214	May				May*	5,123	1,392	6,515
June	3,905	1,502	5,406								

Note: 1978 and 1979 figures revised per Monthly Energy Review
*API Preliminary Figures

U.S. Imports of Crude Oil and Products, 1973 — (In Millions of Barrels a Day)

MMBD



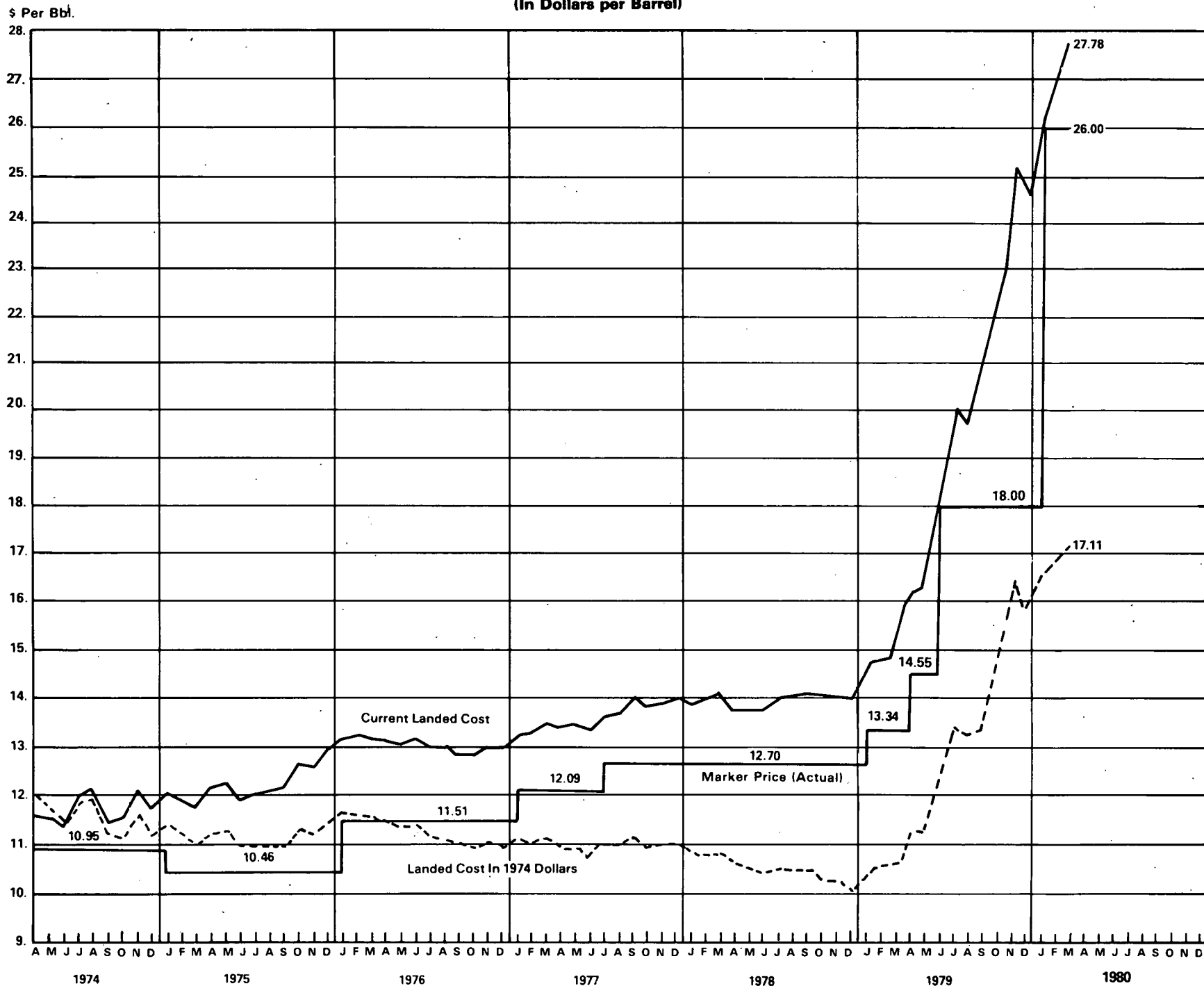
- Moving average is last 12 months.
- SPR purchases not included.

Source: Bureau of Mines, DOE/EIA, API

Landed Cost of Saudi Crude Oil in Current and 1974 Dollars
(In Dollars per Barrel)

Month	Landed Cost of Saudi Crude (Actual)	Cost in 1974 Dollars (CPI Deflator)	Month	Landed Cost of Saudi Crude (Actual)	Cost in 1974 Dollars (CPI Deflator)	Month	Landed Cost of Saudi Crude (Actual)	Cost in 1974 Dollars (CPI Deflator)
1974			1976			1978		
April	11.59	11.90	July	13.02	11.24	October	14.07	10.28
May	11.53	11.70	August	13.03	11.19	November	14.07	10.34
June	11.32	11.38	September	12.87	11.02	December	14.00	10.11
July	11.97	11.95	October	12.87	10.97			
August	12.16	11.98	November	13.01	11.06	1979		
September	11.45	11.15	December	13.02	11.03	January	14.73	10.64
October	11.51	11.11				February	14.88	10.61
November	12.15	11.63	1977			March	15.28	10.79
December	11.75	11.16	January	13.22	11.14	April	16.18	11.29
1975			February	13.32	11.11	May	16.29	11.24
January	12.07	11.42	March	13.50	11.19	June	17.98	12.26
February	11.94	11.22	April	13.41	11.02	July	20.06	13.54
March	11.78	11.03	May	13.49	11.03	August	19.85	13.26
April	12.16	11.32	June	13.39	10.87	September	20.36	13.44
May	12.27	11.37	July	13.64	11.03	October	22.99	15.06
June	11.93	10.98	August	13.72	11.06	November	25.28	16.41
July	12.08	10.99	September	14.01	11.25	December	24.77	15.90
August	12.10	10.97	October	13.85	11.09	1980		
September	12.17	10.99	November	13.94	11.11	January	26.25	16.62
October	12.64	11.34	December	13.99	11.11	February*	27.50	17.19
November	12.58	11.22	1978			March*	27.78	17.11
December	12.93	11.48	January	13.93	10.99	*Preliminary		
1976			February	13.96	10.94			
January	13.18	11.68	March	14.07	10.96			
February	13.21	11.68	April	13.85	10.69			
March	13.18	11.62	May	13.86	10.59			
April	13.11	11.51	June	13.86	10.43			
May	13.05	11.39	July	14.00	10.51			
June	13.14	11.41	August	14.05	10.50			
			September	14.21	10.53			

**Landed Cost of Saudi Crude Oil in Current and 1974 Dollars
(In Dollars per Barrel)**



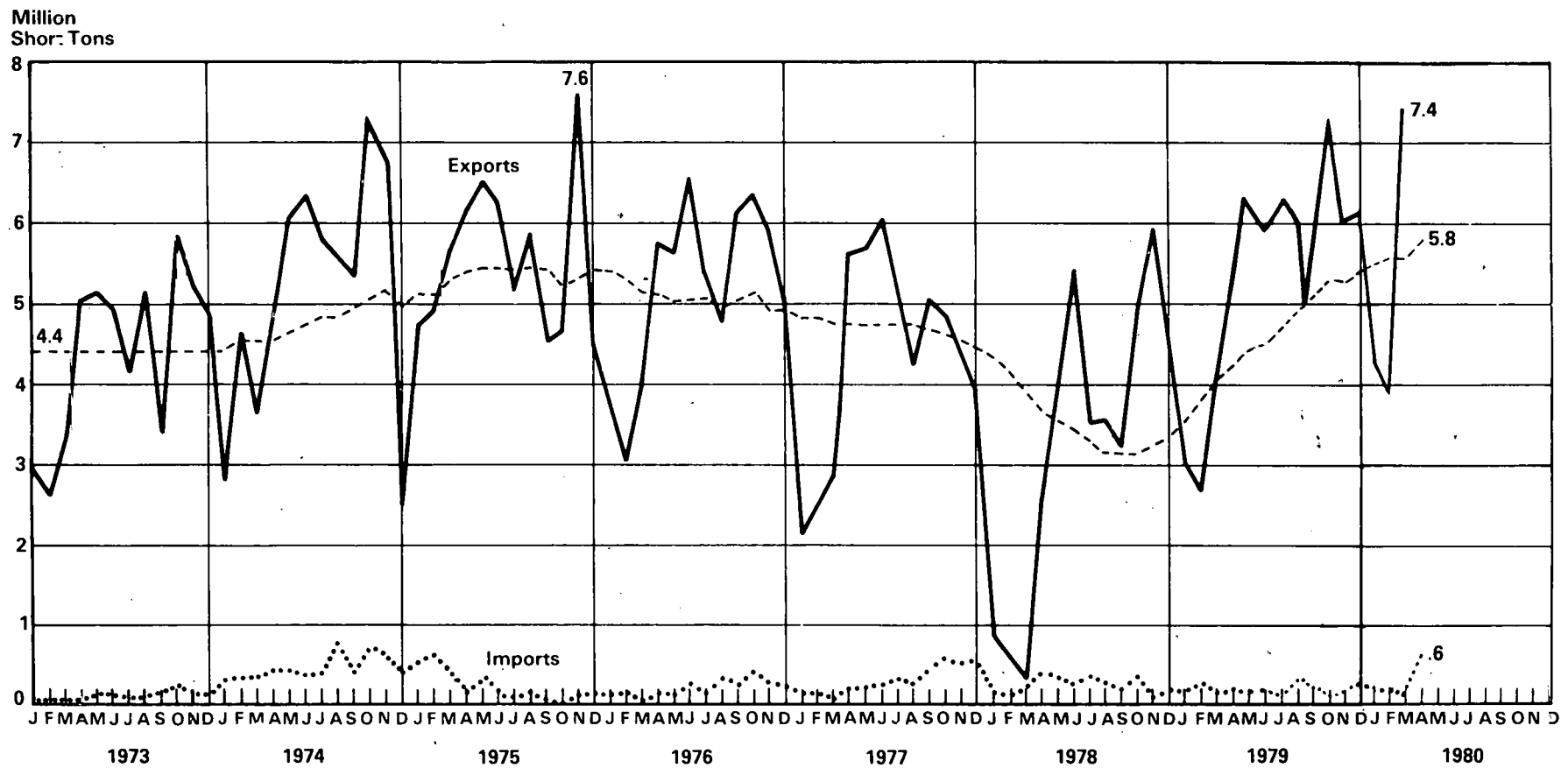
Deflator: CPI (All urban)

Source: Monthly Energy Review
Survey of Current Business
DOE/EIA

**U.S. Trade in Coal, 1973 —
(In Thousand Short Tons per Month)**

1973	Exports	Imports	1975	Exports	Imports	1978	Exports	Imports
January	2,954	34	September	4,529	50	January	870	139
February	2,669	31	October	4,647	27	February	555	159
March	3,377	36	November	7,593	112	March	325	231
April	5,063	40	December	4,534	182	April	2,594	417
May	5,140	125				May	4,411	323
June	4,969	102	1976			June	5,398	291
July	4,188	76				July	3,531	313
August	5,133	96	January	3,697	118	August	3,568	227
September	3,424	187	February	3,050	139	September	3,338	196
October	5,882	218	March	3,979	54	October	4,911	371
November	5,214	153	April	5,780	156	November	5,930	98
December	4,889	115	May	5,667	116	December	4,394	188
			June	6,569	265			
1974			July	4,880	134			
January	2,813	333	August	4,223	361	1979		
February	4,627	344	September	5,613	261	January	3,526	186
March	3,179	346	October	5,871	413	February	2,691	252
April	4,944	424	November	5,451	291	March	4,592	123
May	6,032	437	December	4,625	225	April	5,227	161
June	6,369	387				May	6,091	112
July	5,307	402	1977			June	5,895	209
August	5,088	780	January	2,143	149	July	6,249	88
September	4,893	436	February	3,079	130	August	6,089	320
October	7,342	731	March	3,390	67	September	5,019	180
November	6,744	634	April	5,637	200	October	7,315	34
December	2,586	415	May	5,673	203	November	6,017	130
			June	6,019	257	December	6,072	146
1975			July	5,158	304			
January	4,254	540	August	4,279	274	1980		
February	4,470	606	September	5,037	458	January	4,292	120
March	5,653	411	October	4,871	595	February	3,990	193
April	6,159	192	November	4,491	503	March	5,565	93
May	7,011	334	December	3,910	514	April	7,414	63
June	6,269	110						
July	4,691	65						
August	5,859	144						

**U.S. Trade in Coal, 1973 —
(In Millions of Short Tons per Month)**



Summary of U.S. Merchandise Trade, 1976 — (In Millions of Dollars, Adjusted)

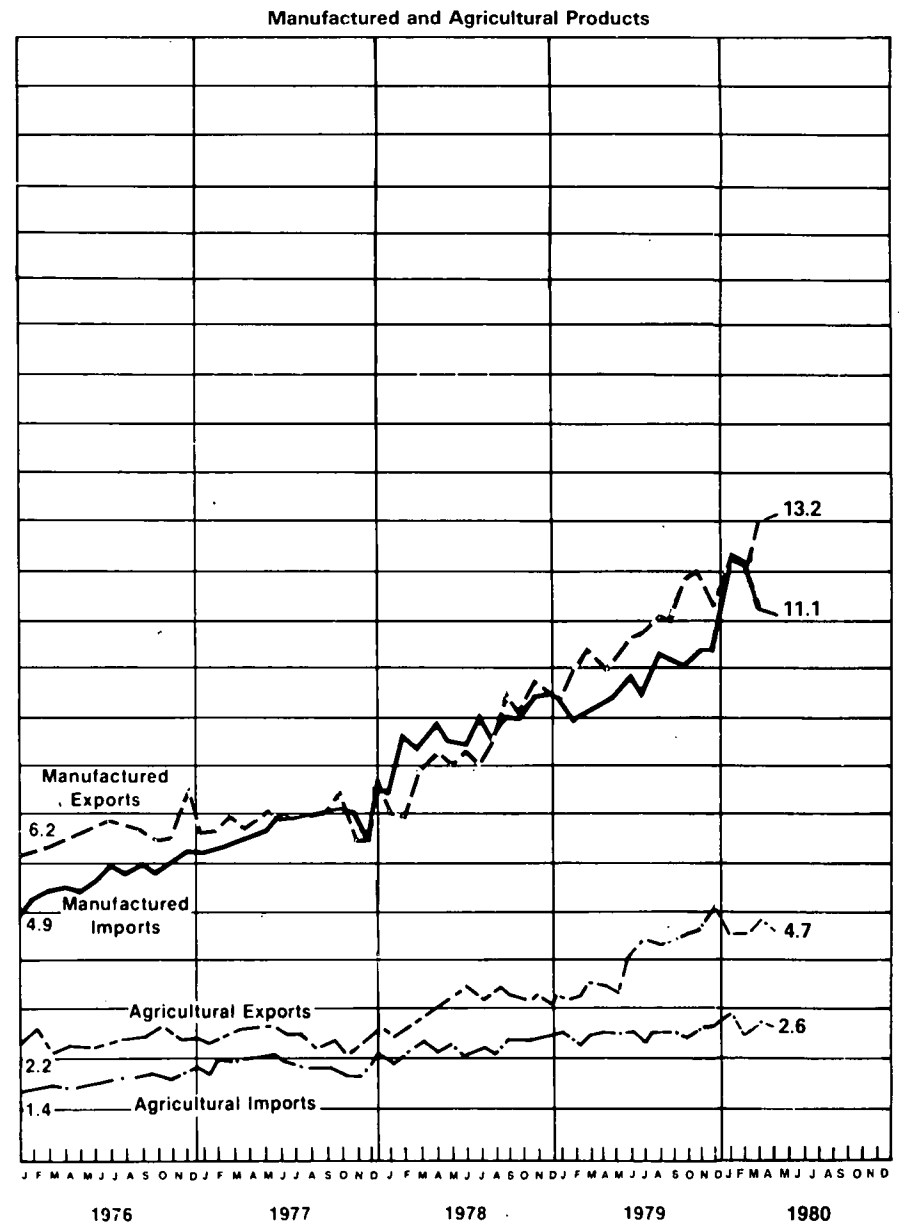
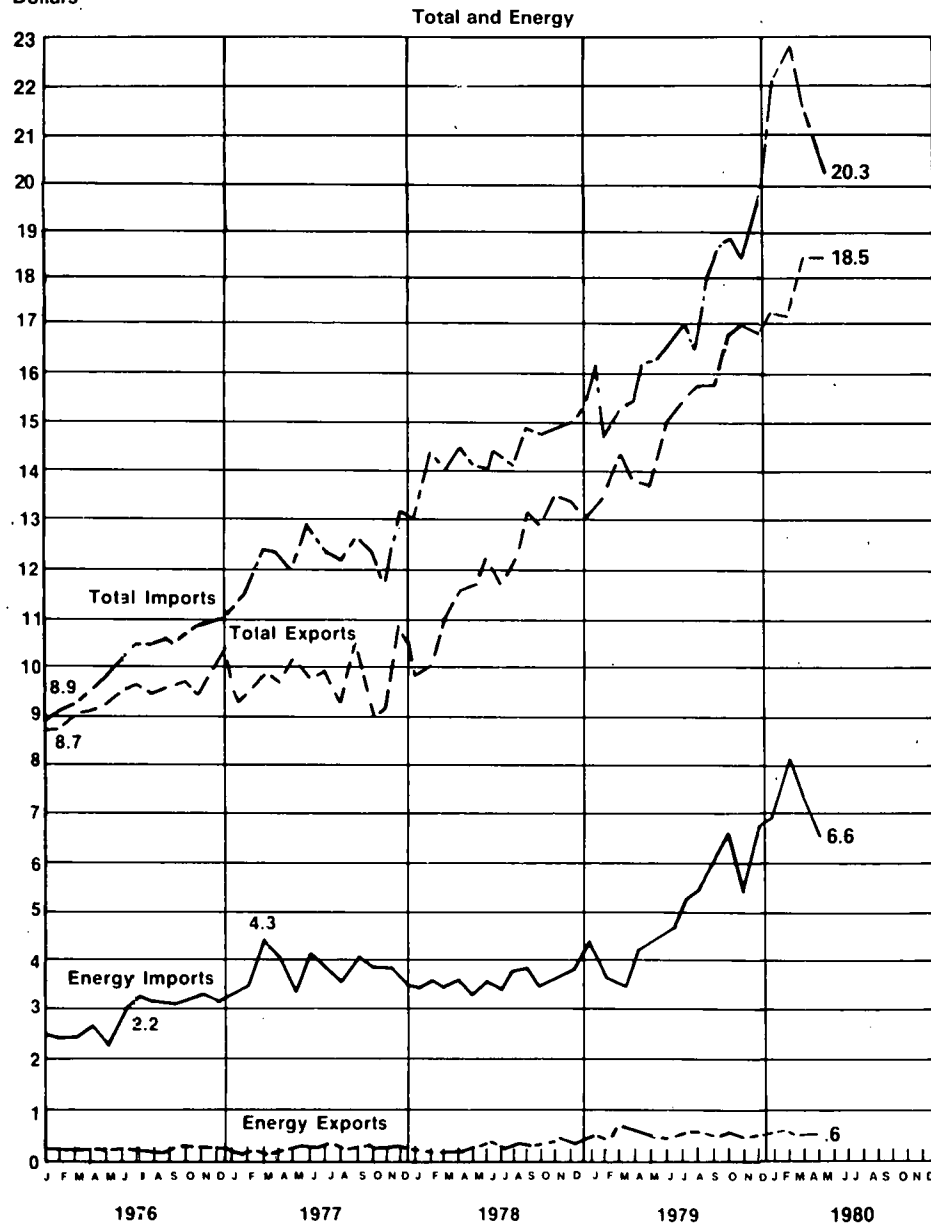
EXPORTS					IMPORTS				
Month	Total	Energy	Manufactured Products	Agricultural Products	Month	Total	Energy	Manufactured Products	Agricultural Products
1976					1976				
Quarter I	25,582	962	18,891	7,397	Quarter I	27,422	7,448	15,530	4,441
II	28,195	1,113	19,995	7,087	II	28,874	7,749	16,486	4,639
III	28,787	1,029	20,277	7,481	III	31,834	9,305	17,504	5,025
IV	29,455	1,102	20,737	7,741	IV	32,414	9,490	17,755	5,169
TOTAL*	113,318	4,226	79,990	29,102	TOTAL*	120,677	33,996	67,313	19,369
1977					1977				
Quarter I	28,853	880	20,425	7,548	Quarter I	35,149	11,016	18,428	5,705
II	29,902	1,148	20,812	7,942	II	37,284	11,256	19,918	6,110
III	29,915	1,143	21,487	7,285	III	37,459	11,173	20,817	5,469
IV	29,305	995	20,993	7,297	IV	37,264	10,936	20,926	5,402
TOTAL*	117,963	4,179	83,678	30,106	TOTAL*	146,817	44,287	79,895	22,635
1978					1978				
Quarter I	30,955	631	22,294	8,031	Quarter I	41,367	10,355	24,700	6,310
II	35,684	975	24,880	9,830	II	42,471	10,220	25,872	6,380
June	12,268	386	8,399	3,484	July	14,545	3,380	9,056	2,109
July	11,662	325	8,048	3,289	August	14,133	3,677	8,491	1,965
August	12,294	335	8,617	3,341	September	14,820	3,699	9,072	2,049
September	13,274	337	9,697	3,441	October	14,852	3,492	9,139	2,221
October	12,901	370	9,181	3,350	November	14,825	3,536	9,013	2,276
November	13,451	408	9,777	3,266	December	15,032	3,746	9,544	2,288
December	13,283	400	9,544	3,339	TOTAL*	183,137	42,105	115,433	25,599
TOTAL*	143,575	3,878	101,839	37,858	1979				
1979					January	16,231	4,228	9,600	2,403
January	13,133	464	9,552	3,118	February	14,806	3,525	9,106	2,174
February	13,507	376	9,941	3,190	March	15,273	3,417	8,947	2,378
March	14,452	531	10,375	3,546	April	16,036	4,241	9,310	2,485
April	13,883	444	9,990	3,448	May	16,342	4,166	9,681	2,495
May	13,862	411	10,116	3,335	June	16,937	4,528	9,881	2,528
June	15,038	454	10,569	4,014	July	16,777	5,075	9,425	2,277
July	15,669	538	10,876	4,255	August	18,177	5,460	10,307	2,410
August	15,821	499	11,108	4,214	September	18,663	6,084	10,204	2,377
September	15,832	423	10,980	4,429	October	18,856	6,559	9,996	2,301
October	16,838	498	11,835	4,505	November	18,422	5,411	10,370	2,641
November	17,004	456	11,966	4,582	December	19,870	6,836	10,374	2,660
December	16,792	519	11,104	5,169	1980				
1980					January	22,107	6,895	12,313	2,900
January	17,348	636	12,162	4,549	February	22,806	8,118	12,063	2,625
February	17,233	573	12,111	4,549	March	21,692	7,744	11,194	2,754
March	18,534	652	13,005	4,878	April	20,337	6,644	11,068	2,625
April	18,468	605	13,192	4,672					

*Total figures adjusted

Source: U.S. Department of Commerce

Summary of U.S. Merchandise Trade, 1976 — (In Billions of Dollars, Adjusted)

Billions of
Dollars



U.S. Energy/GNP Ratio
(In 1972 Dollars)

Year	Total Gross Energy Consumption Trillion Btu	GNP in Billions of 1972 Dollars	Energy/GNP Ratio Thousand Btu per Dollar GNP	Quarter	Energy Use Trillion Btu	GNP in Billions of 1972 Dollars	Energy/GNP Ratio (1972 Dollars)	Moving Average 1972-61.39
1947	33,035	468.3	70.542	1973				
1948	33,881	487.7	69.471	I	20,073	1229.8	65.289	
1949	31,489	490.7	64.171	II	17,551	1231.1	57.025	
1950	33,992	533.5	63.715	III	17,620	1236.3	57.009	
				IV	19,308	1242.6	62.154	60.37
1951	36,775	576.5	63.790					
1952	36,458	598.5	60.916	1974				
1953	37,586	621.8	60.447	I	19,263	1230.2	62.634	59.71
1954	36,263	613.7	59.089	II	17,046	1224.5	55.683	59.38
1955	39,703	654.8	60.634	III	17,364	1216.9	57.076	59.40
1956	41,700	668.8	62.350	IV	18,926	1199.7	63.102	59.64
1957	41,706	680.9	61.251					
1958	41,696	679.5	61.363	1975				
1959	43,140	720.4	59.883	I	19,249	1171.6	65.719	60.41
1960	44,569	736.8	60.490	II	16,367	1189.9	55.020	60.24
				III	16,572	1220.0	54.334	59.55
1961	45,319	755.3	60.001	IV	18,369	1227.9	59.839	58.73
1962	47,422	799.1	59.344					
1963	49,308	830.7	59.357	1976				
1964	51,240	874.4	58.600	I	19,701	1255.5	62.767	57.99
1965	53,343	925.9	57.612	II	17,085	1268.0	53.896	57.71
1966	56,412	981.0	57.505	III	17,317	1276.5	54.264	57.69
1967	58,265	1007.7	57.820	IV	20,227	1284.0	63.012	58.48
1968	61,763	1051.8	58.721					
1969	64,979	1078.8	60.233	1977				
1970	67,143	1075.3	62.441	I	20,543	1306.7	62.885	58.51
				II	17,522	1325.5	52.876	58.25
1971	68,698	1107.5	62.030	III	18,018	1343.9	53.627	58.09
1972	71,610	1171.1	61.148	IV	19,664	1354.5	58.070	56.85
1973	74,605	1235.0	60.366					
1974	72,756	1217.8	59.743	1978				
1975	70,706	1202.3	58.809	I	21,726	1368.0	63.525	56.26
1976	74,513	1273.0	58.533	II	18,315	1395.0	52.516	56.17
1977	76,536	1341.0	57.100	III	18,367	1407.0	52.216	55.82
1978	78,443	1399.0	56.100	IV	20,064	1427.0	56.241	55.36
1979	78,187	1431.7	54.611	1979				
				I	22,405	1431.0	62.628	55.14
				II	18,238	1422.1	51.299	54.84
				III	17,928	1433.3	50.032	54.29
				IV	19,774*	1438.4	54.989	53.98
				1980				
				I	21,293*	1444.7	58.956	53.03

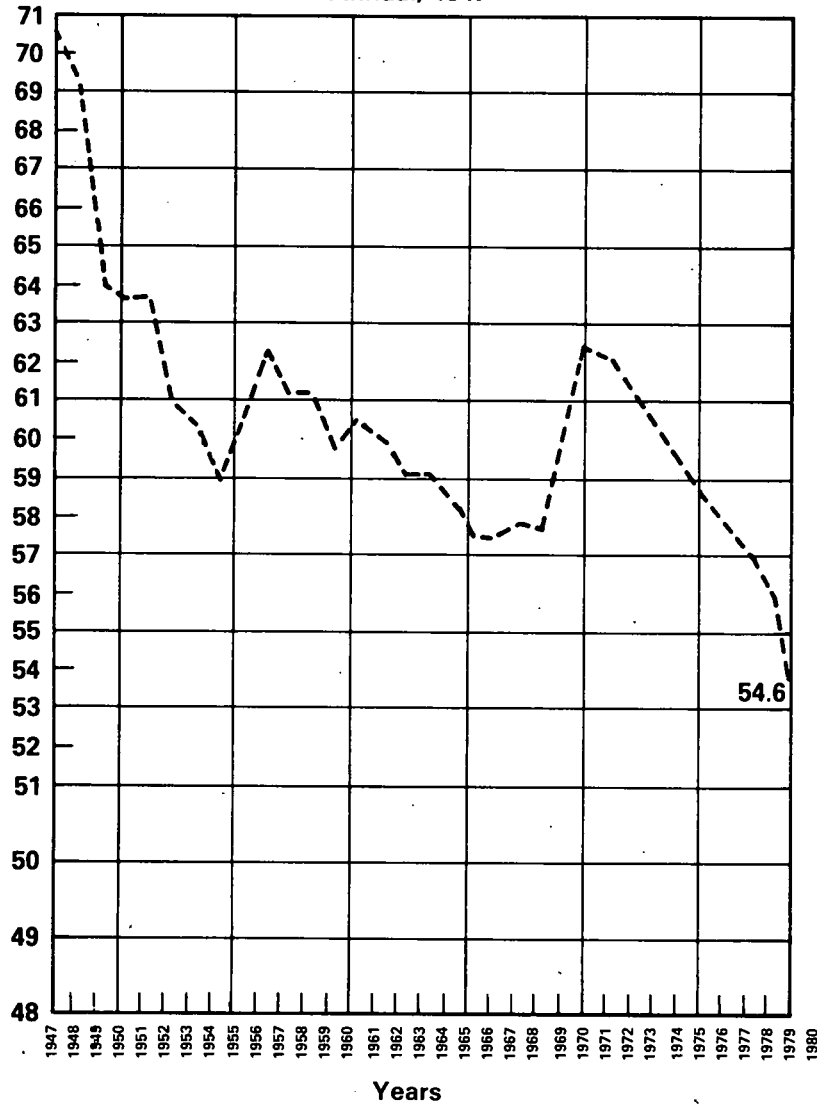
Source: Monthly Energy Review

*Preliminary

U.S. Energy/GNP Ratio, 1972 Dollars

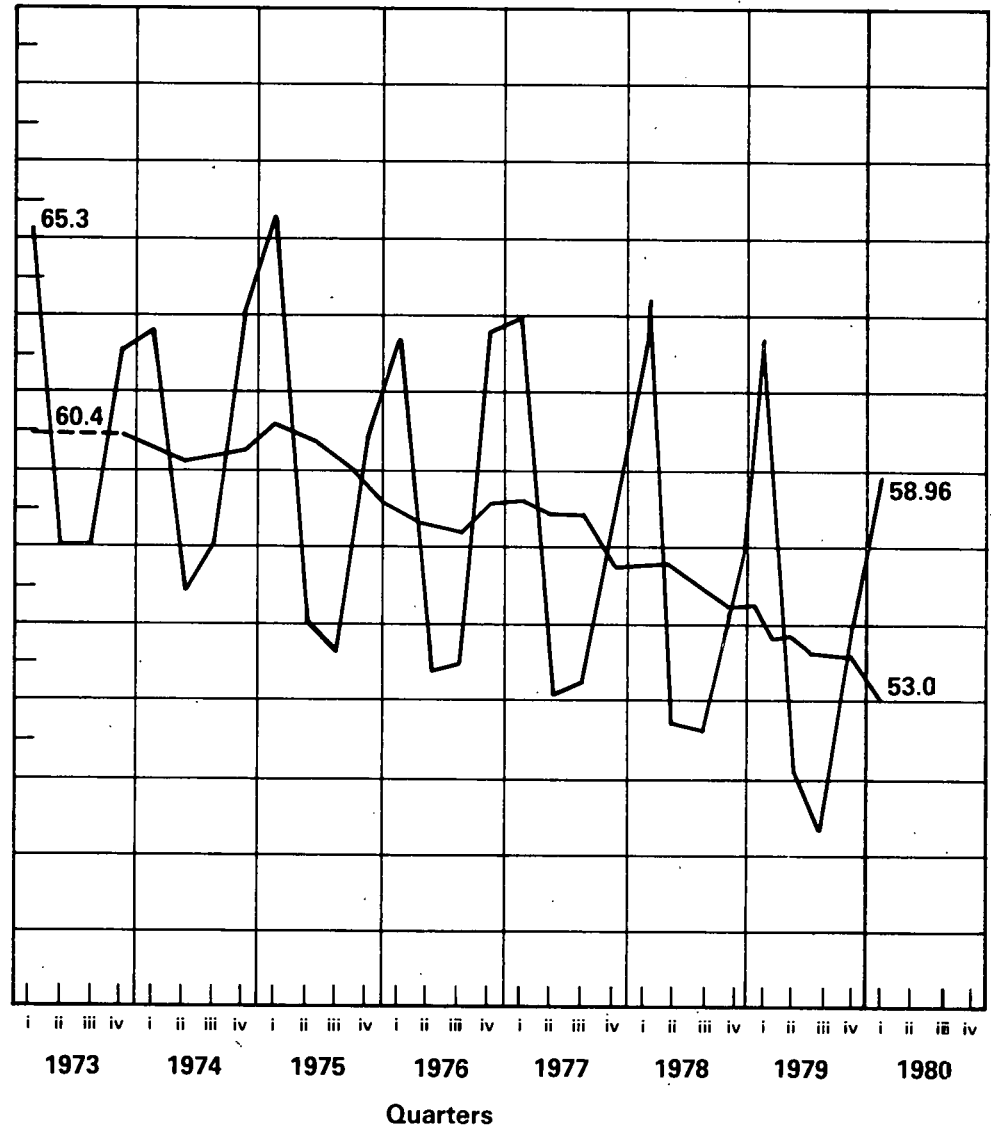
1,000 Btu
per Dollar GNP

Annual, 1947-



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