2005 HiMCM

Problem B: Gas Prices, Inventory, National Disasters, and the Mighty Dollar.

It appears from the economic reports that the world uses gasoline on a very short supply and demand scale. The impact of any storm, let alone Hurricane Katrina, affects the costs at the pumps too quickly. Let's restrict our study to the continental United States.

Over the past six years, Canada has been the leading foreign supplier of oil to the United States, including both crude and refined oil products. *(Petroleum Supply Monthly*, Table S3 - Crude Oil and Petroleum Product Imports, 1988-Present. See page 5 for Canadian exports to the United States.)

- Canada was the largest foreign supplier of oil to the United States again in 2004, for the sixth year running (from1999, when the country displaced Venezuela, to 2004 inclusive).
- In 2002, Canada supplied the United States with 17 percent of its crude and refined oil imports — more than any other foreign supplier at over 1.9 million barrels per day.
- Western Canadian crude oil is imported principally by the U.S. Midwest and the Rocky Mountain states.
- Eastern Canada's offshore oil is imported principally by the U.S. East Coast states, and even by some Gulf Coast states.

Many refiners are buying enough to serve motorists' current needs, but not enough to rebuild stocks. "They are looking to buy the oil when they need it," according to *The Washington Post*. "When they are uncertain about the future, they hold back." (***The Washington Post:*** **Crude Oil Imports to U.S. Slow With War** 3/31/03.)

Build a better model for the oil industry for its use and consumption in the United States that is fair to both the business and the consumer. You can build your model based on a *peak* day.

Write a letter to the President's energy advisor summarizing your findings.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present
(Thousand Barrels per Day)

Year/Month	Imports from Arab-OPEC Sources							
	Algeria		Iraq		Kuwait[b]		Libya	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**300**	**58**	**345**	**343**	**92**	**80**	**0**	**0**
1989 Average	**269**	**60**	**449**	**441**	**157**	**155**	**0**	**0**
1990 Average	**280**	**63**	**518**	**514**	**86**	**79**	**0**	**0**
1991 Average	**253**	**44**	**0**	**0**	**6**	**6**	**0**	**0**
1992 Average	**196**	**24**	**0**	**0**	**51**	**39**	**0**	**0**
1993 Average	**220**	**24**	**0**	**0**	**353**	**344**	**0**	**0**
1994 Average	**243**	**21**	**0**	**0**	**312**	**307**	**0**	**0**
1995 Average	**234**	**27**	**0**	**0**	**218**	**213**	**0**	**0**
1996 Average	**256**	**8**	**1**	**1**	**236**	**235**	**0**	**0**
1997 Average	**285**	**6**	**89**	**89**	**253**	**253**	**0**	**0**
1998 Average	**290**	**10**	**336**	**336**	**301**	**300**	**0**	**0**
1999 Average	**259**	**25**	**725**	**725**	**248**	**246**	**0**	**0**
2000 Average	**225**	**1**	**620**	**620**	**272**	**263**	**0**	**0**
2001 January	286	0	310	310	247	206	0	0
February	223	0	253	253	280	251	0	0
March	279	19	579	579	308	302	0	0
April	326	0	880	880	263	242	0	0
May	379	54	1,011	1,011	256	240	0	0
June	265	20	810	810	270	270	0	0
July	190	0	710	710	292	287	0	0
August	243	0	563	563	261	256	0	0
September	200	0	1,192	1,192	259	237	0	0
October	293	0	1,177	1,177	226	221	0	0
November	320	37	889	889	196	196	0	0
December	326	0	1,126	1,126	145	140	0	0
Average	**278**	**11**	**795**	**795**	**250**	**237**	**0**	**0**
2002 January	265	0	988	988	213	207	0	0
February	248	0	709	709	290	279	0	0
March	347	75	813	813	184	179	0	0
April	366	77	619	619	208	201	0	0
May	343	53	482	482	182	163	0	0
June	293	19	167	167	265	244	0	0
July	160	0	301	301	244	238	0	0
August	183	0	246	246	178	169	0	0
September	249	32	148	148	297	286	0	0
October	239	40	248	248	199	182	0	0
November	226	21	403	403	291	264	0	0
December	245	40	394	394	193	190	0	0
Average	**264**	**30**	**459**	**459**	**228**	**216**	**0**	**0**
2003 January	291	39	634	634	166	134	0	0
February	213	0	963	963	241	223	0	0
March	304	40	681	681	251	220	0	0
April	395	77	739	739	301	294	0	0
May	377	81	128	128	217	200	0	0
June	700	282	0	0	292	274	0	0
July	444	86	67	67	169	169	0	0
August	459	192	125	125	189	183	0	0
September	479	243	362	362	250	248	0	0
October	244	86	735	735	168	168	0	0
November	371	151	706	706	182	176	0	0
December	301	69	678	678	217	211	0	0
Average	**382**	**112**	**481**	**481**	**220**	**208**	**0**	**0**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Arab-OPEC Sources						Total Arab OPEC	
	Qatar		Saudi Arabia[b]		United Arab Emirates			
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**0**	**0**	**1,073**	**911**	**29**	**23**	**1,839**	**1,415**
1989 Average	**2**	**2**	**1,224**	**1,116**	**28**	**21**	**2,130**	**1,794**
1990 Average	**4**	**4**	**1,339**	**1,195**	**17**	**9**	**2,244**	**1,864**
1991 Average	**0**	**0**	**1,802**	**1,703**	**3**	**2**	**2,064**	**1,754**
1992 Average	**1**	**0**	**1,720**	**1,597**	**6**	**0**	**1,974**	**1,660**
1993 Average	**1**	**0**	**1,414**	**1,282**	**14**	**12**	**2,000**	**1,661**
1994 Average	**0**	**0**	**1,402**	**1,297**	**13**	**11**	**1,970**	**1,636**
1995 Average	**0**	**0**	**1,344**	**1,260**	**10**	**5**	**1,806**	**1,505**
1996 Average	**0**	**0**	**1,363**	**1,248**	**3**	**3**	**1,859**	**1,496**
1997 Average	**4**	**0**	**1,407**	**1,293**	**2**	**0**	**2,040**	**1,641**
1998 Average	**4**	**1**	**1,491**	**1,404**	**3**	**3**	**2,424**	**2,053**
1999 Average	**10**	**1**	**1,478**	**1,387**	**2**	**0**	**2,722**	**2,385**
2000 Average	**9**	**0**	**1,572**	**1,523**	**15**	**3**	**2,712**	**2,410**
2001 January	7	0	1,804	1,629	138	79	2,790	2,224
February	0	0	1,800	1,734	44	0	2,600	2,239
March	20	0	1,788	1,730	4	0	2,978	2,630
April	19	0	1,658	1,626	84	76	3,231	2,824
May	30	0	1,770	1,724	52	35	3,500	3,065
June	23	2	1,764	1,694	28	0	3,160	2,796
July	11	0	1,713	1,683	10	0	2,925	2,680
August	10	0	1,835	1,826	26	17	2,939	2,661
September	14	0	1,478	1,439	84	32	3,228	2,900
October	6	0	1,432	1,384	16	16	3,150	2,797
November	10	0	1,543	1,514	0	0	2,957	2,635
December	10	0	1,370	1,357	0	0	2,978	2,623
Average	**13**	**(s)**	**1,662**	**1,611**	**40**	**21**	**3,039**	**2,675**
2002 January	9	0	1,456	1,430	5	0	2,935	2,625
February	11	0	1,474	1,445	0	0	2,732	2,434
March	0	0	1,558	1,526	0	0	2,903	2,592
April	0	0	1,556	1,538	16	16	2,766	2,452
May	10	0	1,564	1,520	0	0	2,581	2,217
June	10	0	1,598	1,565	51	51	2,383	2,046
July	44	35	1,392	1,354	18	0	2,159	1,928
August	9	0	1,444	1,411	25	0	2,086	1,826
September	44	37	1,531	1,512	31	17	2,301	2,032
October	40	32	1,690	1,633	0	0	2,416	2,135
November	0	0	1,511	1,474	17	17	2,449	2,179
December	0	0	1,843	1,815	18	16	2,695	2,455
Average	**15**	**9**	**1,552**	**1,519**	**15**	**10**	**2,533**	**2,243**
2003 January	0	0	1,841	1,803	90	34	3,021	2,644
February	0	0	1,447	1,407	13	0	2,877	2,593
March	0	0	1,886	1,838	0	0	3,122	2,780
April	0	0	2,070	2,024	39	19	3,544	3,151
May	9	0	2,305	2,244	9	0	3,046	2,653
June	0	0	2,002	1,921	33	17	3,027	2,494
July	14	0	1,900	1,835	19	0	2,614	2,159
August	0	0	1,535	1,475	0	0	2,308	1,975
September	3	0	1,749	1,692	33	33	2,876	2,578
October	0	0	1,451	1,388	0	0	2,597	2,376
November	0	0	1,681	1,664	17	17	2,958	2,715
December	8	0	1,410	1,399	0	0	2,613	2,357
Average	**3**	**0**	**1,774**	**1,726**	**21**	**10**	**2,881**	**2,537**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Other-OPEC Sources							
	Ecuador[c]		Gabon		Indonesia		Iran	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**47**	**33**	**16**	**15**	**205**	**186**	[g] **(s)**	[g] **(s)**
1989 Average	**89**	**80**	**50**	**49**	**183**	**158**	**0**	**0**
1990 Average	**49**	**38**	**64**	**64**	**114**	**98**	**0**	**0**
1991 Average	**63**	**53**	**84**	**84**	**111**	**102**	**32**	**32**
1992 Average	**65**	**62**	**124**	**123**	**78**	**70**	**0**	**0**
1993 Average	**81**	**78**	**152**	**151**	**81**	**65**	**0**	**0**
1994 Average	**(c)**	**(c)**	**194**	**194**	**111**	**92**	**0**	**0**
1995 Average	**(c)**	**(c)**	**(d)**	**(d)**	**88**	**64**	**0**	**0**
1996 Average	**(c)**	**(c)**	**(d)**	**(d)**	**59**	**44**	**0**	**0**
1997 Average	**(c)**	**(c)**	**(d)**	**(d)**	**58**	**51**	**0**	**0**
1998 Average	**(c)**	**(c)**	**(d)**	**(d)**	**66**	**50**	**0**	**0**
1999 Average	**(c)**	**(c)**	**(d)**	**(d)**	**81**	**70**	**0**	**0**
2000 Average	**(c)**	**(c)**	**(d)**	**(d)**	**48**	**36**	**0**	**0**
2001 January	(c)	(c)	(d)	(d)	61	20	0	0
February	(c)	(c)	(d)	(d)	76	42	0	0
March	(c)	(c)	(d)	(d)	76	60	0	0
April	(c)	(c)	(d)	(d)	58	52	0	0
May	(c)	(c)	(d)	(d)	78	73	0	0
June	(c)	(c)	(d)	(d)	65	57	0	0
July	(c)	(c)	(d)	(d)	29	28	0	0
August	(c)	(c)	(d)	(d)	38	37	0	0
September	(c)	(c)	(d)	(d)	26	25	0	0
October	(c)	(c)	(d)	(d)	39	29	0	0
November	(c)	(c)	(d)	(d)	22	21	0	0
December	(c)	(c)	(d)	(d)	51	42	0	0
Average	**(c)**	**(c)**	**(d)**	**(d)**	**51**	**40**	**0**	**0**
2002 January	(c)	(c)	(d)	(d)	80	67	0	0
February	(c)	(c)	(d)	(d)	104	84	0	0
March	(c)	(c)	(d)	(d)	63	63	0	0
April	(c)	(c)	(d)	(d)	60	58	0	0
May	(c)	(c)	(d)	(d)	76	76	0	0
June	(c)	(c)	(d)	(d)	57	57	0	0
July	(c)	(c)	(d)	(d)	15	14	0	0
August	(c)	(c)	(d)	(d)	34	34	0	0
September	(c)	(c)	(d)	(d)	49	49	0	0
October	(c)	(c)	(d)	(d)	68	66	0	0
November	(c)	(c)	(d)	(d)	13	13	0	0
December	(c)	(c)	(d)	(d)	21	21	0	0
Average	**(c)**	**(c)**	**(d)**	**(d)**	**53**	**50**	**0**	**0**
2003 January	(c)	(c)	(d)	(d)	25	25	0	0
February	(c)	(c)	(d)	(d)	15	15	0	0
March	(c)	(c)	(d)	(d)	10	10	0	0
April	(c)	(c)	(d)	(d)	46	43	0	0
May	(c)	(c)	(d)	(d)	10	10	0	0
June	(c)	(c)	(d)	(d)	11	11	0	0
July	(c)	(c)	(d)	(d)	0	0	0	0
August	(c)	(c)	(d)	(d)	66	39	0	0
September	(c)	(c)	(d)	(d)	35	8	0	0
October	(c)	(c)	(d)	(d)	133	92	0	0
November	(c)	(c)	(d)	(d)	71	44	0	0
December	(c)	(c)	(d)	(d)	23	15	0	0
Average	**(c)**	**(c)**	**(d)**	**(d)**	**37**	**26**	**0**	**0**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Other-OPEC Sources						Total OPEC[c,d,e]	
	Nigeria		Venezuela		Total Other OPEC[c]			
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**618**	**607**	**794**	**439**	**1,681**	**1,281**	**3,520**	**2,696**
1989 Average	**815**	**800**	**873**	**495**	**2,010**	**1,582**	**4,140**	**3,376**
1990 Average	**800**	**784**	**1,025**	**666**	**2,052**	**1,650**	**4,296**	**3,514**
1991 Average	**703**	**683**	**1,035**	**668**	**2,028**	**1,622**	**4,092**	**3,377**
1992 Average	**681**	**665**	**1,170**	**826**	**2,117**	**1,746**	**4,092**	**3,406**
1993 Average	**740**	**722**	**1,300**	**1,010**	**2,354**	**2,026**	**4,354**	**3,687**
1994 Average	**637**	**624**	**1,334**	**1,034**	**2,277**	**1,944**	**4,247**	**3,580**
1995 Average	**627**	**621**	**1,480**	**1,151**	**2,196**	**1,835**	**4,002**	**3,341**
1996 Average	**617**	**595**	**1,676**	**1,303**	**2,353**	**1,942**	**4,211**	**3,438**
1997 Average	**698**	**689**	**1,773**	**1,394**	**2,529**	**2,134**	**4,569**	**3,775**
1998 Average	**696**	**689**	**1,719**	**1,377**	**2,481**	**2,116**	**4,905**	**4,169**
1999 Average	**657**	**623**	**1,493**	**1,150**	**2,231**	**1,843**	**4,953**	**4,228**
2000 Average	**896**	**875**	**1,546**	**1,223**	**2,491**	**2,134**	**5,203**	**4,544**
2001 January	881	842	1,796	1,431	2,737	2,294	5,527	4,517
February	894	859	1,500	1,250	2,471	2,150	5,071	4,389
March	1,076	1,057	1,702	1,384	2,854	2,501	5,832	5,131
April	1,192	1,137	1,623	1,333	2,873	2,522	6,104	5,346
May	988	916	1,514	1,312	2,580	2,300	6,080	5,365
June	793	724	1,623	1,297	2,480	2,077	5,641	4,873
July	869	834	1,685	1,445	2,583	2,308	5,509	4,987
August	727	690	1,586	1,374	2,350	2,101	5,289	4,763
September	1,057	994	1,282	1,041	2,365	2,060	5,593	4,960
October	842	812	1,511	1,288	2,392	2,129	5,542	4,926
November	696	662	1,423	1,144	2,141	1,827	5,097	4,462
December	614	579	1,382	1,178	2,047	1,799	5,024	4,423
Average	**885**	**842**	**1,553**	**1,291**	**2,490**	**2,173**	**5,528**	**4,848**
2002 January	565	540	1,450	1,233	2,094	1,839	5,029	4,465
February	453	426	1,444	1,222	2,001	1,732	4,733	4,165
March	621	590	1,404	1,148	2,088	1,802	4,991	4,394
April	645	584	1,134	1,014	1,839	1,657	4,606	4,108
May	591	576	1,312	1,117	1,979	1,769	4,561	3,987
June	728	702	1,188	958	1,973	1,717	4,356	3,763
July	607	585	1,585	1,341	2,207	1,940	4,366	3,868
August	820	792	1,699	1,514	2,552	2,341	4,638	4,167
September	547	489	1,556	1,302	2,152	1,839	4,452	3,871
October	597	566	1,605	1,453	2,270	2,085	4,686	4,221
November	596	562	1,625	1,453	2,233	2,028	4,682	4,206
December	670	645	778	652	1,470	1,318	4,164	3,774
Average	**621**	**589**	**1,398**	**1,201**	**2,072**	**1,840**	**4,605**	**4,083**
2003 January	831	804	426	399	1,282	1,228	4,303	3,873
February	547	505	613	559	1,175	1,079	4,052	3,672
March	1,002	945	1,297	1,149	2,310	2,104	5,433	4,883
April	733	697	1,626	1,387	2,405	2,127	5,949	5,279
May	958	907	1,737	1,491	2,705	2,407	5,751	5,060
June	866	836	1,622	1,381	2,499	2,228	5,526	4,722
July	843	804	1,279	1,150	2,122	1,954	4,736	4,112
August	995	988	1,564	1,345	2,626	2,373	4,934	4,347
September	936	905	1,547	1,307	2,519	2,220	5,394	4,798
October	1,049	990	1,564	1,295	2,745	2,377	5,342	4,754
November	646	622	1,562	1,352	2,280	2,018	5,237	4,733
December	959	938	1,631	1,340	2,612	2,293	5,225	4,650
Average	**867**	**832**	**1,376**	**1,183**	**2,281**	**2,041**	**5,162**	**4,578**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Non-OPEC Sources[a]											
	Angola		Australia		Bahama Islands		Brazil		Canada		China, Peoples Republic of	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**212**	**203**	**64**	**59**	**32**	**0**	**98**	**0**	**999**	**681**	**88**	**82**
1989 Average	**284**	**279**	**36**	**31**	**34**	**0**	**82**	**0**	**931**	**630**	**80**	**76**
1990 Average	**237**	**236**	**53**	**47**	**37**	**0**	**49**	**0**	**934**	**643**	**80**	**77**
1991 Average	**254**	**254**	**26**	**21**	**35**	**0**	**22**	**0**	**1,033**	**743**	**91**	**87**
1992 Average	**336**	**336**	**19**	**17**	**36**	**0**	**20**	**0**	**1,069**	**797**	**90**	**84**
1993 Average	**336**	**336**	**19**	**18**	**28**	**0**	**33**	**0**	**1,181**	**900**	**51**	**50**
1994 Average	**331**	**322**	**17**	**16**	**29**	**0**	**31**	**1**	**1,272**	**983**	**65**	**64**
1995 Average	**367**	**360**	**16**	**16**	**2**	**0**	**8**	**0**	**1,332**	**1,040**	**53**	**53**
1996 Average	**351**	**344**	**31**	**25**	**1**	**0**	**9**	**0**	**1,424**	**1,075**	**57**	**57**
1997 Average	**427**	**425**	**48**	**31**	**1**	**0**	**5**	**0**	**1,563**	**1,198**	**49**	**48**
1998 Average	**468**	**465**	**57**	**31**	**4**	**0**	**26**	**0**	**1,598**	**1,266**	**42**	**42**
1999 Average	**361**	**357**	**42**	**31**	**3**	**0**	**26**	**0**	**1,539**	**1,178**	**21**	**13**
2000 Average	**301**	**295**	**56**	**49**	**0**	**0**	**51**	**5**	**1,807**	**1,348**	**44**	**33**
2001 January	312	300	53	44	0	0	143	35	1,935	1,342	33	33
February	499	485	27	20	0	0	88	0	1,867	1,346	2	0
March	374	374	47	20	6	0	81	21	1,938	1,411	35	14
April	381	381	111	68	14	0	87	31	1,852	1,391	24	14
May	358	356	31	21	0	0	127	16	1,780	1,368	31	21
June	302	302	22	22	5	0	67	0	1,900	1,472	26	0
July	297	285	65	65	0	0	86	0	1,690	1,270	23	20
August	323	311	20	20	19	0	54	0	1,723	1,272	57	28
September	334	324	46	46	10	0	80	17	1,685	1,262	22	0
October	242	222	30	21	26	0	84	32	1,734	1,316	22	21
November	267	267	21	21	31	0	56	0	1,899	1,414	0	0
December	263	263	46	46	10	0	33	0	1,944	1,408	9	0
Average	**328**	**321**	**43**	**34**	**10**	**0**	**82**	**13**	**1,828**	**1,356**	**24**	**13**
2002 January	310	297	41	41	20	0	48	16	1,901	1,307	2	0
February	304	290	69	69	26	0	84	52	1,897	1,374	45	42
March	321	300	42	42	46	0	131	65	1,844	1,339	4	0
April	384	371	66	66	7	0	163	84	2,032	1,497	1	0
May	336	336	63	63	19	0	144	77	1,969	1,496	16	15
June	475	463	21	21	16	0	149	69	1,914	1,466	51	34
July	308	298	43	43	35	0	114	59	1,901	1,359	43	32
August	233	220	45	23	47	0	191	119	2,020	1,526	45	34
September	342	329	87	65	53	0	90	53	1,883	1,413	16	0
October	258	246	67	67	55	0	132	75	2,110	1,578	49	48
November	402	390	84	64	37	0	73	17	2,083	1,484	22	21
December	317	312	61	51	42	0	66	14	2,090	1,493	15	13
Average	**332**	**321**	**57**	**51**	**34**	**0**	**116**	**58**	**1,971**	**1,445**	**26**	**20**
2003 January	263	245	20	20	38	0	114	48	2,272	1,654	19	16
February	265	251	23	23	27	0	119	36	1,997	1,447	15	14
March	396	396	20	20	41	0	76	15	1,895	1,428	45	7
April	494	482	24	24	35	0	75	17	1,779	1,287	21	6
May	356	356	20	20	37	0	67	33	2,015	1,502	22	7
June	403	390	44	22	67	0	84	60	1,956	1,517	32	6
July	529	517	47	23	18	0	144	63	2,131	1,616	74	25
August	483	471	62	41	37	0	198	82	2,132	1,586	21	13
September	401	401	84	63	6	0	132	68	2,082	1,538	39	24
October	385	373	45	45	25	0	95	32	2,179	1,700	6	5
November	203	191	22	22	4	0	93	68	2,186	1,639	30	28
December	269	269	0	0	22	0	99	77	2,227	1,663	0	0
Average	**371**	**363**	**34**	**27**	**30**	**0**	**108**	**50**	**2,072**	**1,549**	**27**	**13**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Non-OPEC Sources[a]											
	Colombia		Ecuador[c]		Gabon[d]		Italy		Malaysia		Mexico	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**134**	**106**	(c)	(c)	(d)	(d)	**65**	**5**	**19**	**19**	**747**	**674**
1989 Average	**172**	**136**	(c)	(c)	(d)	(d)	**34**	**3**	**39**	**39**	**767**	**716**
1990 Average	**182**	**140**	(c)	(c)	(d)	(d)	**58**	**2**	**41**	**40**	**755**	**689**
1991 Average	**163**	**123**	(c)	(c)	(d)	(d)	**47**	**3**	**24**	**24**	**807**	**759**
1992 Average	**126**	**102**	(c)	(c)	(d)	(d)	**55**	**0**	**10**	**10**	**830**	**787**
1993 Average	**171**	**141**	(c)	(c)	(d)	(d)	**31**	**0**	**11**	**10**	**919**	**863**
1994 Average	**161**	**146**	**91**	**91**	(d)	(d)	**22**	**0**	**10**	**6**	**984**	**939**
1995 Average	**219**	**207**	**97**	**96**	**229**	**229**	**5**	**0**	**8**	**6**	**1,068**	**1,027**
1996 Average	**234**	**226**	**104**	**96**	**184**	**184**	**8**	**0**	**11**	**6**	**1,244**	**1,207**
1997 Average	**271**	**270**	**115**	**114**	**230**	**230**	**7**	**0**	**23**	**8**	**1,385**	**1,360**
1998 Average	**354**	**349**	**101**	**98**	**207**	**207**	**12**	**0**	**35**	**26**	**1,351**	**1,321**
1999 Average	**468**	**452**	**118**	**114**	**168**	**168**	**10**	**0**	**35**	**21**	**1,324**	**1,254**
2000 Average	**342**	**318**	**128**	**125**	**143**	**143**	**30**	**0**	**45**	**29**	**1,373**	**1,313**
2001 January	379	345	103	94	94	94	43	0	41	4	1,456	1,391
February	321	294	92	90	177	177	44	0	18	0	1,120	1,058
March	228	204	103	103	152	152	64	0	87	54	1,454	1,371
April	301	257	123	120	177	177	24	0	39	22	1,572	1,548
May	323	260	155	149	127	127	49	0	31	0	1,312	1,266
June	308	248	111	84	155	155	32	0	24	13	1,234	1,214
July	239	215	126	117	149	149	55	0	13	0	1,348	1,322
August	350	326	126	113	98	98	19	0	26	10	1,471	1,422
September	307	268	133	132	86	86	63	0	29	21	1,490	1,437
October	234	226	184	178	136	136	27	0	59	34	1,432	1,399
November	278	236	97	97	173	173	47	0	25	12	1,765	1,717
December	283	242	80	80	159	159	8	0	47	15	1,603	1,558
Average	**296**	**260**	**120**	**113**	**140**	**140**	**40**	**0**	**37**	**15**	**1,440**	**1,394**
2002 January	260	228	116	83	206	206	30	0	33	14	1,416	1,373
February	352	331	84	77	61	61	26	0	11	0	1,611	1,571
March	242	233	110	104	124	124	54	0	6	0	1,473	1,437
April	291	266	93	75	164	164	38	0	0	0	1,486	1,442
May	210	192	91	82	188	188	36	0	30	22	1,565	1,492
June	229	204	117	105	123	123	16	0	7	0	1,519	1,474
July	224	203	110	93	206	206	22	0	20	11	1,604	1,529
August	239	217	79	79	170	170	24	0	38	29	1,500	1,475
September	275	263	114	102	164	164	24	0	0	0	1,453	1,417
October	255	232	156	151	88	88	34	0	22	17	1,574	1,524
November	270	212	153	148	127	127	40	0	23	12	1,580	1,532
December	289	248	100	100	88	88	58	0	4	0	1,781	1,734
Average	**260**	**235**	**110**	**100**	**143**	**143**	**34**	**0**	**16**	**9**	**1,547**	**1,500**
2003 January	160	138	85	85	113	113	25	0	12	11	1,604	1,530
February	269	240	93	93	168	168	21	0	15	0	1,646	1,542
March	220	163	82	82	98	98	49	0	8	0	1,355	1,313
April	212	170	101	95	135	135	68	0	27	21	1,663	1,633
May	162	133	149	137	129	129	39	0	31	22	1,556	1,513
June	170	146	136	120	140	140	20	0	0	0	1,530	1,472
July	188	161	144	139	98	98	24	0	118	95	1,694	1,645
August	226	206	173	170	144	144	32	0	62	62	1,618	1,575
September	200	182	173	167	102	102	28	0	46	22	1,665	1,631
October	231	186	245	234	141	141	25	0	15	9	1,692	1,620
November	129	102	103	103	142	142	49	0	9	0	1,657	1,585
December	175	168	244	237	161	161	25	0	21	11	1,801	1,765
Average	**195**	**166**	**145**	**139**	**131**	**131**	**34**	**0**	**31**	**21**	**1,623**	**1,569**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Non-OPEC Sources[a]											
	Netherlands		Netherlands Antilles		Norway		Puerto Rico		Russia[f]		Spain	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**61**	**0**	**36**	**0**	**67**	**62**	**22**	**0**	**29**	**0**	**68**	**0**
1989 Average	**49**	**0**	**42**	**0**	**138**	**127**	**32**	**0**	**48**	**0**	**67**	**0**
1990 Average	**55**	**0**	**31**	**0**	**102**	**96**	**32**	**0**	**45**	**1**	**47**	**0**
1991 Average	**29**	**0**	**81**	**0**	**82**	**74**	**27**	**0**	**29**	**1**	**33**	**0**
1992 Average	**26**	**0**	**65**	**0**	**127**	**119**	**26**	**0**	**18**	**5**	**32**	**0**
1993 Average	**10**	**0**	**82**	**0**	**142**	**137**	**29**	**0**	**0**	**0**	**37**	**0**
1994 Average	**32**	**0**	**98**	**0**	**202**	**190**	**22**	**0**	**0**	**0**	**37**	**0**
1995 Average	**15**	**0**	**52**	**0**	**273**	**258**	**15**	**0**	**25**	**14**	**16**	**1**
1996 Average	**19**	**0**	**64**	**0**	**313**	**293**	**20**	**0**	**25**	**18**	**29**	**1**
1997 Average	**25**	**0**	**74**	**0**	**309**	**288**	**16**	**0**	**13**	**3**	**21**	**0**
1998 Average	**31**	**0**	**82**	**0**	**236**	**221**	**15**	**0**	**24**	**9**	**18**	**0**
1999 Average	**27**	**0**	**65**	**0**	**304**	**263**	**13**	**0**	**89**	**21**	**10**	**0**
2000 Average	**30**	**1**	**90**	**0**	**343**	**302**	**15**	**0**	**72**	**7**	**25**	**0**
2001 January	77	0	141	0	321	229	11	0	190	0	58	0
February	48	0	101	0	395	299	8	0	183	0	47	0
March	48	0	125	0	400	313	5	0	53	0	35	0
April	23	0	105	0	382	325	6	0	115	0	19	0
May	61	0	44	0	411	376	3	0	88	0	31	0
June	56	0	66	0	284	254	12	0	47	0	33	0
July	25	0	70	0	448	363	0	0	81	0	25	0
August	40	0	67	0	287	227	0	0	118	0	11	0
September	34	0	55	0	388	350	3	0	124	0	27	0
October	50	0	75	0	259	211	0	0	34	0	22	0
November	22	0	77	0	387	331	0	0	22	0	16	0
December	33	0	46	0	140	106	0	0	30	0	43	0
Average	**43**	**0**	**81**	**0**	**341**	**281**	**4**	**0**	**90**	**0**	**31**	**0**
2002 January	25	0	120	0	155	135	0	0	61	0	16	0
February	48	0	145	0	264	224	0	0	51	0	10	0
March	77	0	112	0	338	296	0	0	95	12	19	0
April	111	0	94	0	577	523	2	0	192	36	8	0
May	103	0	48	0	519	467	0	0	371	220	23	0
June	69	0	76	0	527	490	0	0	231	78	8	0
July	39	0	51	0	495	448	0	0	220	79	30	0
August	87	0	56	0	478	402	0	0	236	100	29	0
September	21	0	77	0	342	294	0	0	225	104	0	0
October	75	0	71	0	318	308	0	0	295	190	0	0
November	70	0	84	0	409	388	0	0	255	85	19	0
December	61	0	43	0	288	202	0	0	276	108	41	0
Average	**66**	**0**	**81**	**0**	**393**	**348**	**(s)**	**0**	**210**	**85**	**17**	**0**
2003 January	123	0	49	0	210	139	0	0	181	99	30	0
February	62	0	129	0	280	236	0	0	271	121	26	0
March	108	0	64	0	242	181	0	0	257	16	16	0
April	89	0	83	0	282	182	0	0	132	19	17	0
May	76	0	143	0	303	190	0	0	208	142	49	0
June	97	0	49	0	375	244	0	0	527	441	44	0
July	100	0	59	0	265	162	0	0	550	479	16	0
August	91	0	27	0	352	192	0	0	411	288	7	0
September	102	0	46	0	288	214	0	0	275	142	11	0
October	79	0	42	0	296	190	0	0	93	34	10	0
November	93	0	78	0	188	129	0	0	71	0	41	0
December	19	0	71	0	162	116	0	0	72	21	19	0
Average	**87**	**0**	**70**	**0**	**270**	**181**	**0**	**0**	**254**	**151**	**24**	**0**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1988 - Present (Continued)

(Thousand Barrels per Day)

Year/Month	Imports from Non-OPEC Sources[a]										Total Imports	
	Trinidad and Tobago		United Kingdom		Virgin Islands		Other Non-OPEC		Total Non-OPEC[c]			
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1988 Average	**97**	**71**	**315**	**254**	**242**	**0**	**487**	**196**	**3,882**	**2,411**	**7,402**	**5,107**
1989 Average	**94**	**73**	**215**	**160**	**321**	**0**	**457**	**197**	**3,921**	**2,467**	**8,061**	**5,843**
1990 Average	**96**	**76**	**189**	**155**	**282**	**0**	**417**	**180**	**3,721**	**2,381**	**8,018**	**5,894**
1991 Average	**88**	**72**	**138**	**106**	**243**	**0**	**282**	**137**	**3,535**	**2,405**	**7,627**	**5,782**
1992 Average	**95**	**70**	**230**	**200**	**249**	**0**	**335**	**149**	**3,796**	**2,676**	**7,888**	**6,083**
1993 Average	**74**	**55**	**350**	**312**	**254**	**0**	**452**	**240**	**4,266**	**3,100**	**8,620**	**6,787**
1994 Average	**77**	**62**	**458**	**396**	**328**	**0**	**450**	**239**	**4,749**	**3,483**	**8,996**	**7,063**
1995 Average	**70**	**62**	**383**	**341**	**278**	**0**	**302**	**181**	**4,833**	**3,889**	**8,835**	**7,230**
1996 Average	**76**	**58**	**308**	**216**	**313**	**0**	**440**	**265**	**5,267**	**4,070**	**9,478**	**7,508**
1997 Average	**61**	**56**	**226**	**169**	**300**	**0**	**422**	**250**	**5,593**	**4,450**	**10,162**	**8,225**
1998 Average	**66**	**53**	**250**	**161**	**293**	**0**	**531**	**288**	**5,803**	**4,537**	**10,708**	**8,706**
1999 Average	**58**	**40**	**365**	**284**	**280**	**1**	**575**	**304**	**5,899**	**4,502**	**10,852**	**8,731**
2000 Average	**85**	**56**	**366**	**291**	**291**	**0**	**618**	**214**	**6,257**	**4,526**	**11,459**	**9,071**
2001 January	95	55	417	287	339	0	785	164	7,028	4,415	12,555	8,933
February	45	16	378	249	273	0	840	186	6,573	4,220	11,643	8,609
March	67	57	253	167	263	0	483	211	6,301	4,472	12,132	9,603
April	85	60	254	155	201	0	656	216	6,549	4,764	12,653	10,111
May	58	38	418	359	223	0	793	164	6,450	4,520	12,529	9,885
June	70	59	241	192	339	0	759	218	6,091	4,232	11,732	9,105
July	85	58	368	309	320	0	739	392	6,252	4,565	11,760	9,552
August	86	51	314	273	202	0	920	469	6,333	4,620	11,622	9,383
September	91	51	229	165	283	0	704	221	6,225	4,379	11,818	9,339
October	45	39	365	265	263	0	514	182	5,837	4,284	11,379	9,211
November	68	56	367	278	259	0	656	257	6,531	4,858	11,628	9,320
December	69	69	286	225	247	0	592	246	5,969	4,417	10,994	8,839
Average	**72**	**51**	**324**	**244**	**268**	**0**	**702**	**244**	**6,343**	**4,480**	**11,871**	**9,328**
2002 January	53	53	366	284	278	0	604	207	6,059	4,244	11,088	8,709
February	84	84	360	279	242	0	398	133	6,171	4,588	10,904	8,753
March	72	68	272	220	198	0	631	164	6,207	4,405	11,198	8,799
April	59	59	454	380	168	0	772	230	7,160	5,193	11,765	9,301
May	71	63	436	351	165	0	804	273	7,208	5,337	11,769	9,323
June	89	76	726	613	236	0	799	346	7,397	5,561	11,753	9,324
July	72	72	529	481	240	0	951	403	7,258	5,316	11,624	9,184
August	58	50	574	480	234	0	872	454	7,252	5,378	11,890	9,544
September	104	76	353	278	231	0	769	367	6,622	4,926	11,075	8,797
October	112	75	582	486	235	0	718	225	7,207	5,311	11,893	9,532
November	102	82	669	632	321	0	762	255	7,586	5,448	12,268	9,654
December	85	55	415	376	281	0	534	173	6,935	4,968	11,100	8,741
Average	**80**	**68**	**478**	**405**	**236**	**0**	**720**	**270**	**6,925**	**5,058**	**11,530**	**9,140**
2003 January	111	73	493	411	179	0	700	181	6,801	4,760	11,104	8,633
February	78	44	463	407	253	0	649	179	6,869	4,802	10,921	8,474
March	105	78	389	299	328	0	818	245	6,612	4,342	12,044	9,226
April	110	82	407	308	245	0	651	189	6,650	4,649	12,599	9,928
May	97	82	557	470	258	0	894	358	7,167	5,093	12,918	10,153
June	50	44	512	373	278	0	959	340	7,475	5,316	13,001	10,038
July	128	98	512	454	351	0	809	348	8,000	5,922	12,736	10,034
August	58	36	381	319	345	0	974	490	7,836	5,676	12,769	10,023
September	124	87	558	487	326	0	786	359	7,474	5,489	12,868	10,287
October	91	60	319	285	307	0	711	396	7,031	5,309	12,373	10,063
November	112	68	300	234	291	0	676	307	6,475	4,618	11,712	9,351
December	112	56	390	261	287	0	634	228	6,808	5,034	12,033	9,684
Average	**98**	**67**	**440**	**359**	**288**	**0**	**773**	**303**	**7,103**	**5,087**	**12,264**	**9,665**

[a] Includes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC) primarily from Caribbean and West European areas as petroleum products that were refined from crude oil produced by OPEC.

[b] Imports from the Neutral Zone between Kuwait and Saudi Arabia are included in imports from Saudi Arabia.

[c] On December 31, 1992, Ecuador withdrew as a member of OPEC. As of January 1, 1994, imports of petroleum from Ecuador appear under imports from Non-OPEC Sources.

[d] On December 31, 1994, Gabon withdrew as a member of OPEC. As of January 1, 1995, imports of petroleum from Gabon appear under imports from Non-OPEC Sources.

[e] Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.

[f] Imports from other States in the former U.S.S.R. may be included in imports from Russia for the years 1981 through 1992.

[g] A small amount of Iranian crude oil entered the United States in January 1988 from the Virgin Islands. This oil originated in Iran and was exported to the Virgin Islands prior to the signing of Executive Order 12613 on October 29, 1987.

(s) = Less than 500 barrels per day.

Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Source: See Summary Statistics Table and Figure Sources.