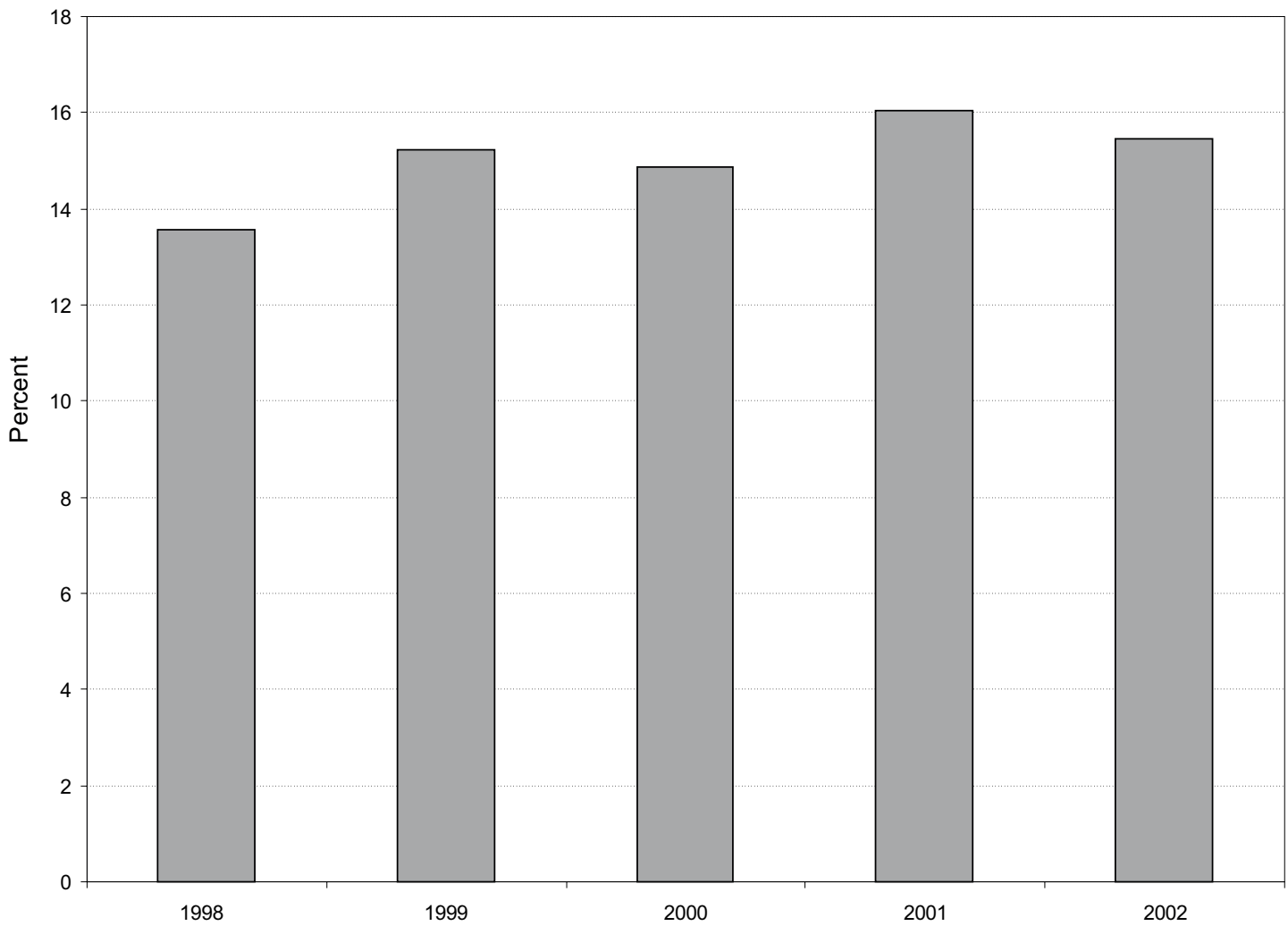


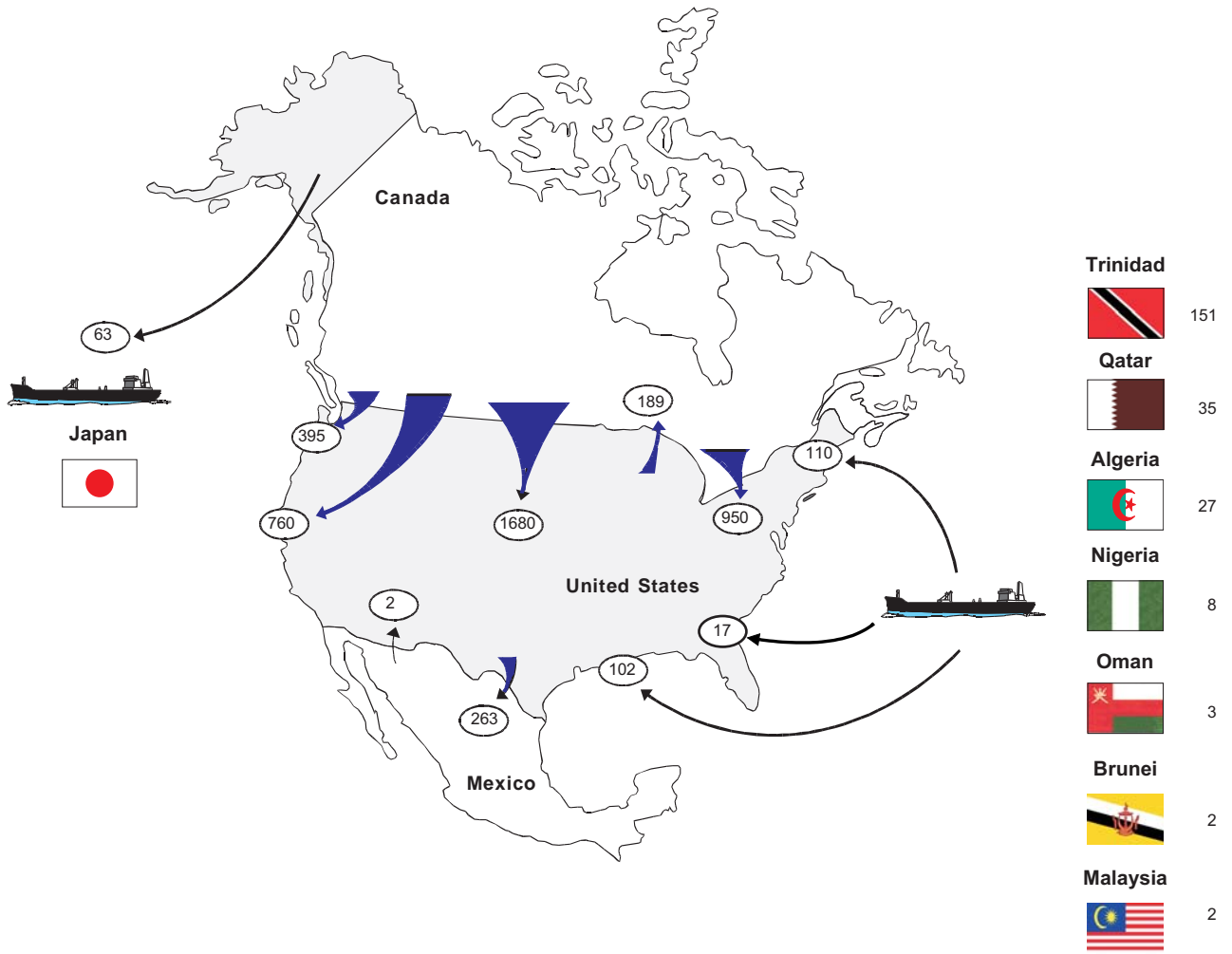
# **Natural Gas Imports and Exports**

**Figure 5. Net Imports as a Percentage of Total Consumption of Natural Gas, 1998-2002**



**Sources:** Energy Information Administration (EIA), Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"; Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production"; Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*; EIA-895, "Monthly Quantity and Value of Natural Gas Report"; EIA-906, "Power Plant Report"; EIA-886, "Annual Survey of Alternative Fueled Vehicle Suppliers and Users"; and EIA estimates.

**Figure 6. Flow of Natural Gas Imports and Exports, 2002**  
(Billion Cubic Feet)



Source: Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*.

Table 9. Summary of U.S. Natural Gas Imports and Exports, 1998-2002

	1998	1999	2000	2001	2002
<b>Imports</b>					
Volume (million cubic feet)					
<b>Pipeline</b>					
Canada.....	3,052,073	3,367,545	3,543,966	3,728,537	3,784,978
Mexico.....	14,532	54,530	11,601	10,276	1,755
<b>Total Pipeline Imports.....</b>	<b>3,066,605</b>	<b>3,422,075</b>	<b>3,555,567</b>	<b>3,738,814</b>	<b>3,786,733</b>
<b>LNG</b>					
Algeria.....	68,567	75,763	46,947	64,945	26,584
Australia.....	11,634	11,904	5,945	2,394	0
Brunei.....	0	0	0	0	2,401
Indonesia.....	0	0	2,760	0	0
Malaysia.....	0	2,576	0	0	2,423
Nigeria.....	0	0	12,654	37,966	8,123
Oman.....	0	0	9,998	12,055	3,013
Qatar.....	0	19,697	46,057	22,758	35,081
Trinidad.....	0	50,777	98,949	98,009	151,104
United Arab Emirates.....	5,252	2,713	2,725	0	0
<b>Total LNG Imports.....</b>	<b>85,453</b>	<b>163,430</b>	<b>226,036</b>	<b>238,126</b>	<b>228,730</b>
<b>Total Imports.....</b>	<b>3,152,058</b>	<b>3,585,505</b>	<b>3,781,603</b>	<b>3,976,939</b>	<b>4,015,463</b>
Average Price (dollars per thousand cubic feet)					
<b>Pipeline</b>					
Canada.....	1.95	2.23	3.97	4.43	3.13
Mexico.....	2.03	2.14	5.43	5.00	2.36
<b>Total Pipeline Imports.....</b>	<b>1.95</b>	<b>2.23</b>	<b>3.98</b>	<b>4.44</b>	<b>3.13</b>
<b>LNG</b>					
Algeria.....	2.51	2.41	3.48	3.73	3.61
Australia.....	3.30	2.70	3.25	3.86	—
Brunei.....	—	—	—	—	3.25
Indonesia.....	—	—	3.99	—	—
Malaysia.....	—	2.36	—	—	3.43
Nigeria.....	—	—	4.37	5.56	3.21
Oman.....	—	—	3.36	5.56	3.34
Qatar.....	—	2.71	3.44	4.37	3.39
Trinidad.....	—	2.39	3.43	4.14	3.40
United Arab Emirates.....	2.63	3.03	3.53	—	—
<b>Total LNG Imports.....</b>	<b>2.63</b>	<b>2.47</b>	<b>3.50</b>	<b>4.35</b>	<b>3.41</b>
<b>Total Imports.....</b>	<b>1.97</b>	<b>2.24</b>	<b>3.95</b>	<b>4.43</b>	<b>3.15</b>
<b>Exports</b>					
Volume (million cubic feet)					
<b>Pipeline</b>					
Canada.....	39,891	38,508	72,586	166,690	189,313
Mexico.....	53,133	61,025	105,102	140,370	263,078
<b>Total Pipeline Exports.....</b>	<b>93,023</b>	<b>99,533</b>	<b>177,688</b>	<b>307,060</b>	<b>452,391</b>
<b>LNG</b>					
Japan.....	65,951	63,607	65,610	65,753	63,439
Mexico.....	33	275	418	465	403
<b>Total LNG Exports.....</b>	<b>65,984</b>	<b>63,882</b>	<b>66,028</b>	<b>66,218</b>	<b>63,842</b>
<b>Total Exports.....</b>	<b>159,007</b>	<b>163,415</b>	<b>243,716</b>	<b>373,278</b>	<b>516,233</b>
Average Price (dollars per thousand cubic feet)					
<b>Pipeline</b>					
Canada.....	2.25	2.35	3.66	3.97	3.35
Mexico.....	2.04	2.27	4.26	4.34	3.30
<b>Total Pipeline Exports.....</b>	<b>2.13</b>	<b>2.30</b>	<b>4.01</b>	<b>4.14</b>	<b>3.32</b>
<b>LNG</b>					
Japan.....	2.91	3.08	4.31	4.39	4.07
Mexico.....	5.69	6.95	5.82	5.82	5.82
<b>Total LNG Exports.....</b>	<b>2.91</b>	<b>3.10</b>	<b>4.31</b>	<b>4.40</b>	<b>4.08</b>
<b>Total Exports.....</b>	<b>2.45</b>	<b>2.61</b>	<b>4.10</b>	<b>4.19</b>	<b>3.41</b>

— = Not applicable.

**Notes:** Prices for LNG imports are reported as "landed," received at the terminal, or "tailgate," after regasification at the terminal. Generally the reporting of LNG import prices varies by point of entry, and the average prices are calculated from a combination

of both types of prices. The price of LNG exports to Japan is the "landed" price, defined as received at the terminal in Japan. Estimates for Canadian pipeline volumes for 2001 and 2002 are derived from the Office of Fossil Energy *Natural Gas Imports and Exports* and EIA estimates of dry natural gas imports. Totals may not equal sum of components due to independent rounding.

**Table 10 Summary of U.S. Natural Gas Imports By Point of Entry, 1998-2002**  
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

State	1998		1999		2000		2001		2002	
	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price
<b>Pipeline (Canada)</b>										
Eastport, ID .....	879,840	1.60	800,345	2.04	830,351	3.79	802,182	4.71	759,647	2.83
Calais, ME .....	NA	NA	NA	NA	123,521	4.50	152,486	4.47	124,991	3.49
Detroit, MI .....	10,925	2.43	7,671	2.51	6,171	3.82	405	9.34	1,948	3.56
Marysville, MI .....	1,827	2.17	135	2.06	NA	NA	NA	NA	74	3.95
St. Clair, MI .....	34,592	2.07	33,388	2.62	17,198	4.45	21,747	4.54	28,441	3.19
International Falls, MN .....	6,103	2.00	4,857	2.33	3,022	2.77	617	4.85	602	3.01
Noyes, MN .....	468,576	2.07	506,866	2.29	469,361	3.75	448,898	4.19	402,621	3.09
Warroad, MN .....	473	1.71	412	2.06	4,576	3.95	5,318	4.52	5,374	3.16
Babb, MT .....	17,776	1.65	3,841	2.00	295	5.83	2,571	2.74	6,326	2.24
Havre, MT .....	NA	NA	NA	NA	1,309	3.66	NA	NA	NA	NA
Port of del Bonita, MT .....	25	1.37	89	2.66	107	4.52	141	4.64	234	2.66
Port of Morgan, MT .....	556,215	1.83	790,427	2.03	784,583	3.73	648,400	4.01	768,533	3.02
Sweetgrass, MT .....	NA	NA	NA	NA	NA	NA	121	1.94	NA	NA
Whitlash, MT .....	6,533	1.57	12,767	2.05	13,733	3.09	11,428	2.71	12,558	2.42
Pittsburg, NH .....	NA	NA	22,820	2.61	38,289	4.07	45,808	4.01	29,014	3.37
Champlain, NY .....	15,258	3.53	17,171	3.68	17,436	3.86	17,329	4.03	16,904	4.17
Grand Island, NY .....	44,981	2.80	33,140	3.07	49,012	4.24	95,639	4.08	110,417	3.57
Massena, NY .....	9,184	2.78	7,258	2.81	7,309	4.25	6,931	4.96	7,662	4.08
Niagara Falls, NY .....	303,599	2.62	372,515	2.58	421,016	4.10	308,102	4.94	367,448	3.55
Waddington, NY .....	293,234	2.38	324,400	2.54	337,989	4.24	290,981	4.81	285,188	3.60
Portal, ND .....	9,268	1.71	3,416	1.88	469	1.80	772	3.07	553	2.55
Sherwood, ND .....	NA	NA	NA	NA	60,249	6.14	494,795	4.10	453,093	3.08
Sumas, WA .....	374,666	1.71	415,636	2.17	347,992	4.28	366,050	4.76	394,929	3.01
Highgate Springs, VT .....	7,680	2.43	8,141	2.91	9,980	4.28	7,815	5.69	8,421	4.33
North Troy, VT .....	11,319	2.75	2,250	2.27	NA	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>3,052,073</b>	<b>1.95</b>	<b>3,367,545</b>	<b>2.23</b>	<b>3,543,966</b>	<b>3.97</b>	<b>3,728,537</b>	<b>4.43</b>	<b>3,784,978</b>	<b>3.13</b>
<b>Pipeline (Mexico)</b>										
Alamo, TX .....	NA	NA	12,651	2.33	8,390	4.82	2,984	5.94	571	2.30
El Paso, TX .....	996	2.09	NA	NA	NA	NA	NA	NA	NA	NA
Hidalgo, TX .....	13,496	2.03	41,879	2.09	2,093	5.85	7,292	4.61	782	2.26
McAllen, Tx .....	NA	NA	NA	NA	1,118	9.22	NA	NA	402	2.62
Penitas, TX .....	40	2.04	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total .....</b>	<b>14,532</b>	<b>2.03</b>	<b>54,530</b>	<b>2.14</b>	<b>11,601</b>	<b>5.43</b>	<b>10,276</b>	<b>5.00</b>	<b>1,755</b>	<b>2.36</b>
<b>Total Pipeline .....</b>	<b>3,066,605</b>	<b>1.95</b>	<b>3,422,075</b>	<b>2.23</b>	<b>3,555,567</b>	<b>3.98</b>	<b>3,738,814</b>	<b>4.44</b>	<b>3,786,733</b>	<b>3.13</b>
<b>LNG</b>										
Elba Island, GA .....	NA	NA	NA	NA	NA	NA	2,563	1.92	16,837	3.51
Lake Charles, LA .....	42,922	2.62	67,362	2.43	127,198	3.61	145,157	4.42	102,130	3.42
Everett, MA .....	42,531	2.64	96,068	2.49	98,838	3.34	90,406	4.30	109,763	3.39
<b>Total LNG .....</b>	<b>85,453</b>	<b>2.63</b>	<b>163,430</b>	<b>2.47</b>	<b>226,036</b>	<b>3.50</b>	<b>238,126</b>	<b>4.35</b>	<b>228,730</b>	<b>3.41</b>
<b>Total Imports .....</b>	<b>3,152,058</b>	<b>1.97</b>	<b>3,585,505</b>	<b>2.24</b>	<b>3,781,603</b>	<b>3.95</b>	<b>3,976,939</b>	<b>4.43</b>	<b>4,015,463</b>	<b>3.15</b>

<sup>a</sup> Alliance Pipeline moves saturated natural gas from the Canadian border at Sherwood, ND to the Aux Sable processing plant in Illinois. EIA adjusted the Alliance import volumes to remove volumes of natural gas liquids reported by Alliance. The import volumes of dry natural gas are then comparable with other volumes of pipeline imports.

NA = Not Applicable

**Notes:** Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska. Prices for LNG

imports are reported as "landed," defined as received at the terminal or "tailgate," defined as after regasification at the terminal. Generally, prices for shipments received at Everett, MA are reported as landed and at Lake Charles, LA as tailgate. Estimates for Canadian pipeline volumes for 2001 and 2002 are derived from the Office of Fossil Energy *Natural Gas Imports and Exports* and EIA estimates of dry natural gas imports.

**Sources:** Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*.

**Table. 11 Summary of U.S. Natural Gas Exports By Point of Exit, 1998-2002**  
(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

State	1998		1999		2000		2001		2002	
	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price
<b>Pipeline (Canada)</b>										
East Port, ID .....	NA	NA	NA	NA	NA	NA	NA	NA	176	4.40
Detroit, MI .....	24,908	2.26	25,049	2.30	36,007	3.74	35,644	4.57	7,431	3.03
Marysville, MI .....	3,377	2.17	691	2.47	5,320	2.91	3,651	3.92	NA	NA
St. Clair, MI .....	11,397	2.23	11,258	2.51	29,654	3.73	122,293	3.82	164,084	3.42
Noyes, MN .....	NA	NA	NA	NA	NA	NA	NA	NA	71	1.99
Babb, MT .....	NA	NA	NA	NA	NA	NA	549	3.55	143	2.28
Havre, MT .....	NA	NA	1,510	2.05	1,606	3.25	2,428	3.40	15,892	2.74
Port of Morgan, MT ...	NA	NA	NA	NA	NA	NA	NA	NA	1	3.47
Niagara Falls, NY .....	NA	NA	NA	NA	NA	NA	594	2.49	39	5.04
Sumas, WA .....	208	2.80	NA	NA	NA	NA	1,529	4.44	1,477	2.59
<b>Total.....</b>	<b>39,891</b>	<b>2.25</b>	<b>38,508</b>	<b>2.35</b>	<b>72,586</b>	<b>3.66</b>	<b>166,690</b>	<b>3.97</b>	<b>189,313</b>	<b>3.35</b>
<b>Pipeline (Mexico)</b>										
Douglas, AZ .....	4,133	1.89	4,041	2.37	8,829	4.23	8,050	3.50	10,938	3.11
Calexico, CA .....	2,067	2.58	3,724	2.69	3,921	4.67	2,124	7.34	3,580	3.44
Obilgy Mesa, CA .....	NA	NA	NA	NA	NA	NA	NA	NA	11,450	3.63
Otay Mesa, CA .....	NA	NA	NA	NA	9,083	6.53	21,133	6.80	20,191	2.93
Alamo, TX .....	NA	NA	NA	NA	11,254	4.49	16,980	4.12	51,391	3.35
Clint, TX .....	30,880	1.99	42,367	2.22	45,512	3.95	36,470	4.28	59,218	3.16
Eagle Pass, TX .....	1,471	2.24	1,990	2.35	2,114	3.91	1,896	4.45	1,914	3.44
El Paso, TX .....	7,358	2.05	6,146	2.43	7,458	4.35	6,843	4.35	7,632	3.28
Hidalgo, TX .....	6,017	2.13	2,757	2.04	12,639	3.26	1,398	2.46	15,318	3.39
McAllen, TX .....	NA	NA	NA	NA	4,291	4.81	45,477	3.37	76,345	3.42
Penitas, TX .....	1,206	2.09	NA	NA	NA	NA	NA	NA	5,100	3.27
<b>Total.....</b>	<b>53,133</b>	<b>2.04</b>	<b>61,025</b>	<b>2.27</b>	<b>105,102</b>	<b>4.26</b>	<b>140,370</b>	<b>4.34</b>	<b>263,078</b>	<b>3.30</b>
<b>Total Pipeline.....</b>	<b>93,023</b>	<b>2.13</b>	<b>99,533</b>	<b>2.30</b>	<b>177,688</b>	<b>4.01</b>	<b>307,060</b>	<b>4.14</b>	<b>452,391</b>	<b>3.32</b>
<b>LNG (Japan)</b>										
Kenai, AK .....	NA	NA	63,607	3.08	65,610	4.31	65,753	4.39	63,439	4.07
Port Nikiski, AK .....	65,951	2.91	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total.....</b>	<b>65,951</b>	<b>2.91</b>	<b>63,607</b>	<b>3.08</b>	<b>65,610</b>	<b>4.31</b>	<b>65,753</b>	<b>4.39</b>	<b>63,439</b>	<b>4.07</b>
<b>LNG (Mexico)</b>										
Nogales, AZ .....	33	5.69	238	7.01	271	5.82	402	5.82	319	5.82
Otay Mesa, CA .....	NA	NA	NA	NA	26	5.82	63	5.82	84	5.82
San Diego, CA .....	NA	NA	37	6.50	121	5.82	NA	NA	NA	NA
<b>Total.....</b>	<b>33</b>	<b>5.69</b>	<b>275</b>	<b>6.95</b>	<b>418</b>	<b>5.82</b>	<b>465</b>	<b>5.82</b>	<b>403</b>	<b>5.82</b>
<b>Total LNG .....</b>	<b>65,984</b>	<b>2.91</b>	<b>63,882</b>	<b>3.10</b>	<b>66,028</b>	<b>4.32</b>	<b>66,218</b>	<b>4.40</b>	<b>63,842</b>	<b>4.08</b>
<b>Total Exports .....</b>	<b>159,007</b>	<b>2.45</b>	<b>163,415</b>	<b>2.61</b>	<b>243,716</b>	<b>4.10</b>	<b>373,278</b>	<b>4.19</b>	<b>516,233</b>	<b>3.41</b>

NA = Not Applicable

**Notes:** Totals may not equal sum of components due to independent rounding. Geographic coverage is the continental United States including Alaska. The price of LNG

exports to Japan is the "landed" price, defined as received at the terminal in Japan.

**Sources:** Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports.